

PERFECT
SOLUBLE ESSENCE
OF
LEMON

IS A PURE FRUIT ESSENCE
MADE ENTIRELY FROM LEMONS

IT IS GUARANTEED FREE FROM
TERPENELESS & SESQUITERPENELESS
OIL OF LEMON, OIL OF LIMES,
ARTIFICIAL CITRAL OR ANY OTHER
ADMIXTURE.

The enormous demand for this PERFECT essence
IS A PROOF OF ITS SUPERLATIVE QUALITY,
AND NOTHING APPROACHING IT IN
FLAVOUR OR AROMA CAN BE MADE
FROM TERPENELESS OILS BY ANY PROCESS.

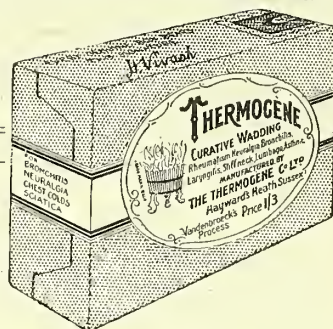
THE SALE OF LEMONADE DEPENDS
ENTIRELY ON THE FLAVOURING USED

STEVENSON & HOWELL, LTD.
SOUTHWARK STREET, LONDON, S.E. 1.

Telegraphic Address:
"Distiller, Boroh, London."

ESTABLISHED 1882

Telephone No.:
4833 Hop (3 lines)



Announcement

By arrangement between
The Thermogene Co., Ltd., and Fassett & Johnson, Ltd.

All orders for Thermogene for execution on and after July 1st, 1922, should be addressed to the London offices and distributing centre of the Thermogene Co., Ltd.,

at

**Central Buildings, Victoria Embankment,
London, E.C.4.**

For the information of exporters, Fassett & Johnson, Ltd., will act as the sole distributing agents for the Thermogene Co., Ltd., in Australasia and South Africa.

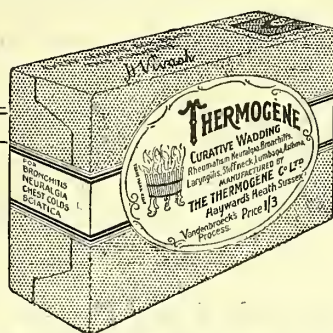
Thermogene will continue to be manufactured at Haywards Heath, Sussex. The extension of factory facilities which, owing to unforeseen circumstances, were not completed in time to meet the greatly increased demand for Thermogene last season—are now available—and will ensure ample supplies of Thermogene for all markets in the future.

THERMOGENE
TRADE MARK REGD
CURATIVE WADDING

THE THERMOGENE CO., Ltd.,

Central Buildings, Victoria Embankment, London, E.C.4.

(Works: Haywards Heath, Sussex.)



THERMOGENE

**New BONUS Window Display
Terms now Available**

Carriage Paid to Destination. Containers Supplied Free. Cash in 30 Days.

Standard Assortments	Contents (with Bonus) Dozens		Bon-us Doz. 1/3.	Net cost per dozen		Costs you £ s. d.	Yields £ s. d.	Total Profit £ s. d.	Percentage of profit on selling price
	1/3 P.A.T.A.	3/- P.A.T.A.		1/3	3/-				
A.S.	6½	—	½	11/5	—	3 8 6	4 17 6	1 9 0	29¾%
B.S.	4½	1	½	11/5	27/4	3 13 0	5 3 6	1 10 6	29½%
C.S.	6½	½	½	11/5	27/4	4 2 2	5 15 6	1 13 4	28¾%
K.S.	13	—	1	11/2	—	6 14 0	9 15 0	3 1 0	31½%
L.S.	9	2	1	11/2	26/8	7 2 8	10 7 0	3 4 4	31%
M.S.	13	1	1	11/2	26/8	8 0 8	11 11 0	3 10 4	30½%

The above terms are conditional on a 14 days' Window Display being given.

MINIMUM WHOLESALE TERMS:

(Without Window Display)

1/3 Size (P.A.T.A.)

12/- per dozen net.

In 6 doz. lots, 11/5 per doz. net.

3/- Size (P.A.T.A.)

28/9 per dozen net.

In 3 doz. lots, 27/4 per doz. net.

Minimum quantity supplied by Manufacturers—6 doz. 1/3 size. 3 doz. 3/- size.

Terms: Cash in 30 days. Carriage forward.

All the above Terms are operative in England, Scotland and Wales only.

THERMOGENE

TRADE MARK REGD

CURATIVE WADDING

THE THERMOGENE CO., LTD.,

Central Buildings, Victoria Embankment, E.C.4.

(Works: Haywards Heath, Sussex.)

VACUUM FLASKS.



Black Japanned Case, ^{each}
Aluminium Cup, pint size 1/8

Original Cases at 1/6

Aluminium Case, pint size 2/9

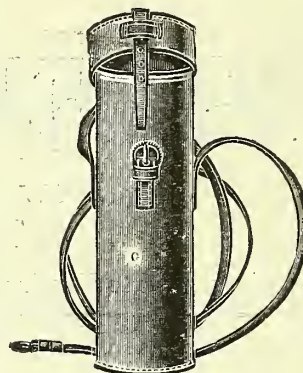
Real Leather Covered,
Nickel Fittings, pint size 5/-



Japanned Case, Aluminium
Cup, quart size 4/9

Refills for pint size 1 3

*Window Card with orders for
1 dozen.*



Solid Leather Carry-
ing Case with Straps
for 1 pint round
flasks, 8/-.

Water

Per doz.
11/6

Wings

12 doz.
at 10/6

60 doz.
at 10/-

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LONDON, E.C.1

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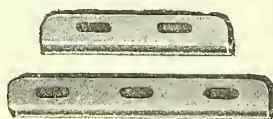
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CLIP FASTENERS
NICKELOID CLIPS
ETC.

FOOT POWER CLIP FASTENER AND NICKELOID CLIPS.

Will simplify the difficult problem of effectively sealing the ends of collapsible tubes and at the same time produce an attractive article with a permanent seal.



Clips made in all sizes for tubes from $\frac{1}{4}$ " to $1\frac{1}{2}$ " diam.



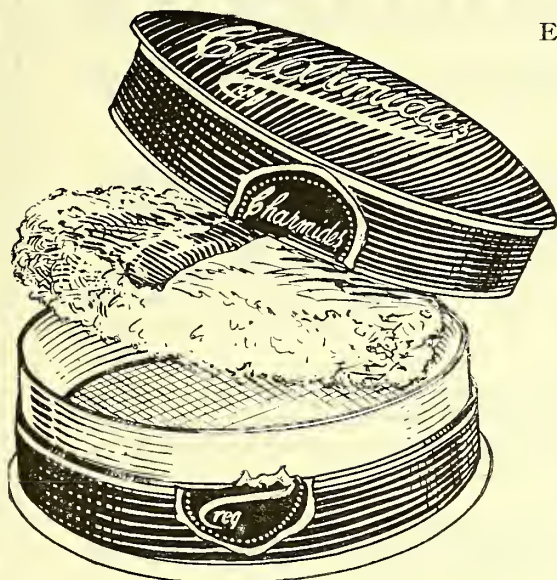
The machine is designed to fasten clips to tubes of all sizes from smallest to $1\frac{1}{2}$ " diameter and a corresponding range of clips are available.

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1890

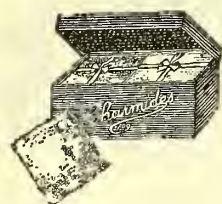
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Exclusive and Exquisite.

The Dainty New Box of Charmides Face Powder, with "economiser" and handy little puff (actual size).

RETAIL PRICE 1/6 (1 oz.)

Wholesale 12/- dozen.



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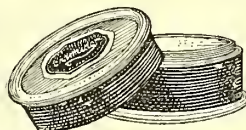
Retail 3/-

Wholesale 24/- doz.

SKIN FOOD CREAM

Retail 1/6

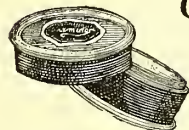
Wholesale 12/- doz.



CREMÈ MAGIQUE

Retail 3/-

Wholesale 24/- doz.



Adver- tised Price	Name of Article	Min. Retail Price.	Minimum Wholesale Price.
3/-	FACE SACHET (Charmides) (½ doz.)	3/-	24/- doz.
5/-	" " " " 1 "	5/-	40/- "
2/6	POUDRE SACHET (equivalent 1 doz.)	2/6	20/- "
3/9	" " " " 2 "	3/9	30/- "
1/6	FACE POWDER (1 oz.) (as shown)	1/6	12/- "
2/6	" " " " (2 "	2/6	20/- "
3/9	" " " " (4 "	3/9	30/- "
3/-	(1 oz.) CRÈME MAGIQUE	3/-	24/- "
5/9	(2 " " " "	5/9	46/- "
1/6	(1 " " SKIN FOOD CREAM	1/6	12/- "
2/6	(2 " " " " "	2/6	20/- "
4/-	(3 " " " " "	4/-	32/- "

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The Original Colloidal Preparations for Medicinal Use.

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THE astounding growth of Collosol script during the past few months has been commented upon by the trade.

Vigorous propaganda has brought the exceptional value of these products prominently before the medical profession, which is prescribing them in increasing quantities.

The margin of profit given makes the Collosol preparation an attractive one from the pharmacist's standpoint, and he enjoys the prestige of association with distinctive and really reliable products.

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HIGHEST GRADE AUSTRALIAN SANDALWOOD OIL

GUARANTEED NOT UNDER
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OPTICAL ROTATION
- 6° to - 10°

Recent Analysis:

Alcohols (as Santalol) 91.3%
Ester Santalol ... 3.2%

Accepted by Australian
Medical authorities as equal
to B.P. Oil for medicinal
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Prices ex London Stock or c.i.f. any Port.

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LONDON, N.1.

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(A good name is more than riches.)



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goes one better than ordinary ammonia in quality—and profit. Recommend it and reap that benefit.

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SPECIAL ADVERTISING BONUS

to all retail Chemists buying direct, cash with order, until July 19, 1922.

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(The True Tonic Food)

£5 net order — Bonus of 6 x 2/3 size. (Bonus only for complete £5 lots). Equivalent in other sizes if desired.

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(The Germ-Killing Throat Tablet)

6 doz. bots. net order — Bonus 6 x 2/9 Bots. (Bonus only for 6 dozen lots).

GENASPRIN

(The Safe Brand of Aspirin)

12 doz. Bots. net order — Bonus 12 x 2/- Bots. (Bonus only for complete 12 doz. lots. or our usual 7 doz. lots for 6 Bots. Bonus.)

MIXED ORDER

£5 net order — Bonus of 6 x 2/3 SAN. or 5 x 2/9 FORM. or 8 x 2/- GEN. (Bonus only for complete £5 lots.)

CONDITIONS.

- (1) That the attractive showcards, dummy packages, etc. (which will be forwarded with the bonus goods) be prominently displayed in your window.
- (2) That you inform us by Postcard when, and for what period, the window display will be in position so that our representative may call and inspect.

GENATOSAN LIMITED, LOUGHBOROUGH, LEICESTERSHIRE.

Maw's



Page

"Meritor," The Chemist's Brushware Series

A display of "Meritor" Hair Brushes attracts and convinces. The striking black and green "Meritor" design on the carton in which each brush is enclosed, the "Meritor" seal which is the brand of a high class article, the charming Hair Brush showcard supplied with each order—all have an air of distinction which makes "Meritor" Brushes a welcome addition to the Pharmacist's window or counter. And the "Meritor" Hair Brush itself—an immediate impression of good value is given to your customer who will appreciate the resiliency of the substitute for bristle from which it is made, with its remarkably penetrating qualities, and the highly polished back. The printed guarantee is also a convincing argument as to durability, while the variety of patterns enables the chemist to suit every customer.

The combination of high class advertising matter, reasonable price, and good quality Brushes, will create and maintain excellent sales of which the profits must come to you, because "Meritor" Brushware can only be purchased from the qualified pharmacist.



Push the "Meritor" Series and watch your Brushware Business grow.



S. Maw, Son & Sons. Ltd.
Aldersgate St., London.
and Barnet.

Telephone :
City 7
Private
Branch
Exchange

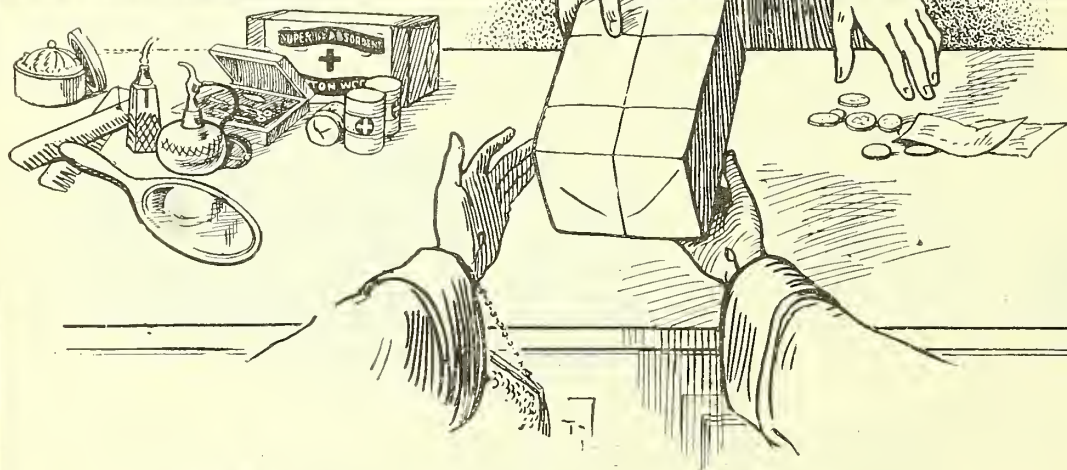
Telegrams :
**Eleven
Cent**
London

Cables : Code
Eleven A.B.C.
London 4th & 5th
Edition





We forge Goods
that turn to
Gold.



Arthur Berton Ltd.

Tel. No. Clerkenwell 1347/8/9

Tel. Add. "Aybelim, Finsquare, London."

15/17, Worship St., London, E.C.2.

84, Miller St., Glasgow.

AND AT
MANCHESTER

Bismuth

It is not good business to use Bismuth Salts which merely pass the B.P. tests, if it is possible to obtain better at the same price.

By buying Evans' Bismuth Salts you not only receive the finest product obtainable, but you are certain of getting uniformity in all your repeat orders.

We supply one quality only—the highest—at one scale of prices only—the lowest.

EVANS

EVANS SONS LESCHER & WEBB, LTD.
LIVERPOOL New York LONDON

Peldo

(Patent applied for)

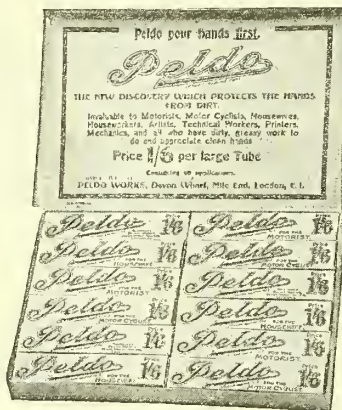
We are now advertising this extensively to the general public in the following periodicals and newspapers :

"THE DAILY MAIL," "THE DAILY MIRROR," "THE DAILY EXPRESS,"
 "PUNCH," "STRAND MAGAZINE," "THE AUTO-CAR," "THE MOTOR,"
 "THE LIGHT CAR & CYCLE CAR," "THE MOTOR CYCLE,"
 "THE MOTOR NEWS," "THE MODEL ENGINEER."

THIS WILL INCREASE THE DEMAND. ARE YOU IN A POSITION TO SUPPLY?

IT IS NOT A QUESTION OF SWINGS AND ROUNDABOUTS;
 IT IS ALL NEW BUSINESS.

THERE are many preparations before the public, by the means of which excessive dirt and grease can be removed from the hands, more or less at the expense of considerable effort, and some loss of the outer cuticle. "Peldo" reverses this painful process and makes washing the hands clean after a dirty or greasy job, a simple pleasure instead of a painful labour. In effect "Peldo" forms an invisible, intangible, skin-like glove over the hands, successfully defying the efforts of every description of dirt, grease, stains, etc., to penetrate the skin and the pores of the skin, so that after any job involving contact with any such things, a simple natural wash with ordinary soap and cold water "peels" off the dirt and grease, or whatever the substance may be, together with the invisible "Peldo" glove, leaving the hands as immaculate as they were before.



RETAIL PRICE

1/6 EACH
 NET

(P.A.T.A.)

Attractive Window Display material and Showcards supplied. Sample Tubes supplied gratis in proportion to quantity ordered.

WHOLESALE PRICE

13/6 PER
 DOZ.

In order to introduce "Peldo" we are offering a special bonus for a guaranteed window display of not less than 14 days as follows :

On orders of 1 gross a bonus of 18 full-size tubes.

On orders of 6 dozen a bonus of 8 full-size tubes.

On orders of 3 dozen a bonus of 3 full-size tubes.

Further particulars on application to

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf, Emmott Street, MILE END, E.1.

Ayrton's

**NOW—and at all times
it is important** to consider



the quality of your DRUGS and CHEMICALS. WHAT IS QUALITY?—Surely quality is PURITY plus Laboratory and Manufacturing skill which only long experience can give.

Demands upon us require the extension of our staff almost daily, but there is in our Laboratories and on our Manufacturing side a very big proportion of Chemists and Employees with 35 to 50 years' service. New ideas blended with ripe experience is the guarantee we offer you, and being wise, you will entrust your orders for DRUGS, CHEMICALS, PHARMACEUTICALS and GALENICALS to the

AYRTON ORGANISATION —OLD YET NEW—

AYRTON'S CREMORS.

Smooth as velvet, easily absorbed and always sweet. Uniform in strength and quality.

	per lb.
Cremor Antisepticum	2/5
Cremor Gallae	2/4
Cremor Hydrag	
Ammon	2/2
Cremor Lanoline ...	2/-
Cremor Sulphuris ...	1/6
Cremor Zinci.....	1/6

Special Quotations for
Quantities.

STANDARDISED TINCTURES AND EXTRACTS.

CONCENTRATED INFUSIONS.

POWDERED DRUGS. SOLUBLE ESSENCES. EMULSIONS. SYRUPS.

COMPRESSED TABLETS
and ELEGANT CAPSULES
—standard, or to customers'
own formulæ.

AYRTON'S CONCENTRATED LIQUORS pro TINCTURES.

	per lb.
Liquor Benzoin Co.	
(1-3)	11/6
Liquor Camph. Co.	
(1-7)	7/4
Liquor Cardam Co.	
(1-3)	4/8
Liquor Scillae (1-3)...	6/-
Liquor Rhei Co. (1-3)	7/9
Liquor Gentian Co.	
(1-7).....	6/3

Send a post-card for Price
List.

EXPORT ENQUIRIES INVITED.

AYRTON, SAUNDERS & CO., Ltd.,

Manufacturing Chemists,

Hanover Street, LIVERPOOL.

Telegrams:—"Sundries, Liverpool."

ALKIA SALTRATES^{AND} REUDEL BATH SALTRATES

The extreme height of perfection in salines. The best that can be produced regardless of cost. (3/3 P.A.T.A.).

The best of all bath preparations, either for medicinal or general toilet use. (2/- and 3/3 double size P.A.T.A.).

They never stay long on your shelves, because they please the customer EVERY TIME.

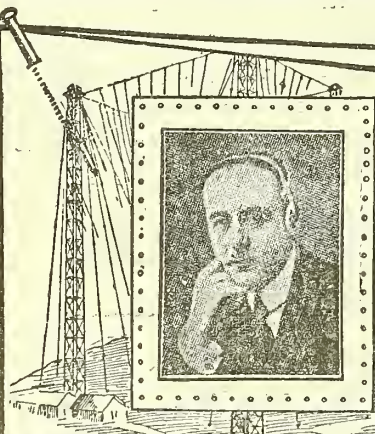
Never Let Your Stock Run Too Low.

NO STOCK — NO SALES.

A LETTER THAT EVERY CHEMIST SHOULD READ.

**"Do I still have to travel to Continental Spas?
No, NO,—n'n'n' NO. I take my cure at home,"**

Says **GEORGE ROBEY**, the inimitable comedian, who like Sir Harry Lauder and numerous others amongst the really great stars of the theatrical firmament, has joined the long list of prominent men and women who have used our Saltrates with results so pleasing that they have kindly written us in grateful acknowledgement of the wonderful benefits derived. No other preparations in the world have ever received such endorsement. The following letter is here reproduced by special permission. **SALTRATES, LTD.**



GEORGE ROBEY'S S.O.S.

Messrs. Saltrates Ltd.
Euston Buildings,
London. N.W.1.

Cranbourne Street
LONDON. W

March 8th. 1920.

Dear Sir:- That was a good turn you did me in donating the supplies of Alkia Saltrates and Reudel Bath Saltrates that I ordered for the hospital. The favour is appreciated by me as much as the Saltrates are appreciated by all who use them, myself of course included. No one can accord anything higher praise than that.

Personally, I never could be sure of remaining in perfect bodily health and comfort without always having both Alkia and Reudel right where they are handy when wanted. I needed these Saltrates of yours long before commencing to use them, years ago. "Oh! How can I tell you my feelings" in those days. Now, I have no more internal or external aches or pains, no more tired feet or muscular strains. Do I still travel to Continental Spas? No, NO - n'n'n' NO! I take my cure at home.

I realise that every manufacturer appreciates the testimony he knows his products deserve, and it gives me pleasure to acknowledge the benefits derived in my own case. If you consider that my recommendation may be useful in helping others help themselves by using Alkia or Reudel, I have no objection to your quoting this letter.

Yours gratefully

George Robey



The EASINESS of **“DISTOL” OTTOS.**

Take 2 to 4 drams of any
 “Distol” according to the
 strength required, and add
 S.V.R. and Aqua Dest. to
 make up to One Pint.

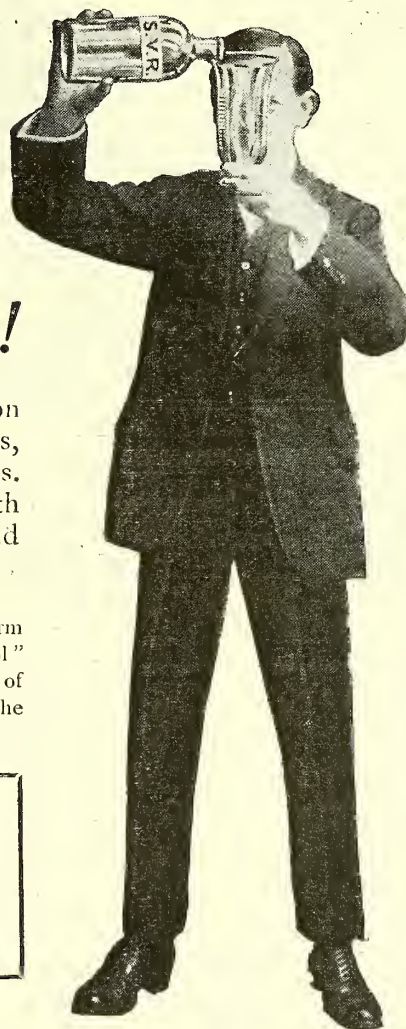
—and that’s all !

Nothing could be easier than the preparation
 of good perfumery from “Distol” Ottos,
 and the economies that result are enormous.
 Make up your own proprietary perfume with
 “Distol” Otto instead of stocking and
 pushing expensive advertised goods.

There are 40 “Distols” retailing at the uniform
 price of 7/6 per oz. net. An ounce of any “Distol”
 makes 81 ozs. of good perfumery, or 40 ozs. of
 “De Luxe” quality, such as will compete with the
 most expensive brands on the market.

“Distols” and Spirit Economy.

“Distol” perfumery can be made in small quantities as
 required, thus obviating the locking up of capital in
 extensive stocks of S.V.R. Most “Distols” lend them-
 selves to considerable dilution with Aqua Dest. without
 loss of their distinctive characteristics.



Ask for free samples of perfume made from any six “Distols.”

THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
 ESTABLISHED 1797.

COPYRIGHT

Three products that pay big dividends

To Chemists who handle them.

"Emdoin" preparations promote business by their wonderful efficacy, and the trader is additionally assisted by continuous and widespread publicity in the London and Provincial papers.

Emdoin Antiseptic Ointment.

5/- jar, 45/- per doz. ; 3/- jar, 27/- per doz.

Emdoin Soap. 1/- per tablet, 9/- per doz.

Emdoin Shampoo Powders.

4d. each, 2/7½ per doz.

Manufactured by The Emdoin Co.—Offices, 29 Fetter Lane, E.C.4; and can be obtained from the Wholesale Distributing Agents, Sangers, 258 Euston Rd., London, N.W.1




Titterton's Celebrated
HAIR BRUSHES
Tooth, Nail & Shaving Brushes
Titterton & Howard, 8-10 Gt. Titchfield St., W.1.
Factory: Albion Works, Dalston Lane, E. 8.



SELF-FIXING
HERMETIC
WASHABLE
BOTTLE CAPS
ARE
—ELEGANT—
—EFFICIENT—
—STRONGEST—
—CHEAPEST—
and BEST.
The VISCOSÉ
Development Co., Ltd.
BROMLEY :: KENT
'SEMREH' SELF-FIXING BOTTLE CAPS

At
CUTTING
PRICES
to meet the
times.

BIDWELLS
CELEBRATED
HAIR BRUSHES

Made at our own Factories.
AXMINSTER, DEVON.

LONDON :
6 East India
Avenue, E.C.3.




*The Apex
of Modern Science*

BRISTOW'S
Georgian Soap

A Soap of Quality for Delicate Skins

In Bath and Toilet
Sizes, also in 3 tablet
boxes containing 1 Bath
and 2 Toilet Tablets.

The most refined and
exquisitely perfumed
Toilet Soap of the
❖ Century ❖

T.F. BRISTOW & COY LTD

London.

*Perfumiers & Makers of Superfine Soap
from George III to George V.*



TB

TB

ESTABLISHED 1777.

ESTABLISHED 1777.

DEARBORN L^{TD}

37 Gray's Inn Road,
LONDON, W.C.1.

Toilet Specialties.

	Price per doz.	Selling Price to Retailer P.A.T.A.
PILENTA SOAP ... A complexion soap.	10/-	1/-
PROLACTUM ... For the lips.	10/-	1/-
PARSIDIUM JELLY ... For wrinkles.	10/-	1/-
ALLACITE OF ORANGE BLOSSOM ... A dressing cream.	22/6	2/6
BORANIUM ... A hair tonic.	22/6	2/6
CLEMINITE ... For a face lotion.	22/6	2/6
COLLIANDUM ... For a face tint.	22/6	2/6
PERGOL ... A deodorant.	22/6	2/6
TEKKO PASTE ... Camphor cream.	22/6	2/6
STALLAX ... For a shampoo.	22/6	2/6
JETTALINE ... For clearing the skin.	31/6	3/6
PHEMINOL ... A depilatory.	36/-	4/-
MENNALINE ... For the eyelashes.	36/-	4/-
MERCOLIZED WAX ... A face cream.	31/6	3/6
STYMOL ... For oily complexions and blackheads.	36/-	4/-
SILMERINE ... Hair-curling fluid.	22/6	2/6
BARSYDE ... Dandruff eradicator.	22/6	2/6
TAMMALITE ... For grey and faded hair.	22/6	2/6
LIQUID PERGOL ... To check excessive perspiration locally.	31/6	3/6
BICROLIUM ... For whitening the hands.	22/6	2/6
HARAPOSA ... Nut oil shampoo.	22/6	2/6
COCONOIDS ... For figure development.	31/6	3/6

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES	{ 36/-	4/-
For obesity.	58/6	6/6
SOFT PALERIUM...	45/-	5/-
For wrinkles.		
LIQUID NAIL POLISH ...	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

COLONIAL DEPOTS AND AGENCIES.

Australia: ALL WHOLESALERS, & DEARBORN (Australia),
Ltd. Grace House, Clarence Street, Sydney.
South Africa: LENNON Ltd. Cape Town, etc.
SIVE BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay.
SMITH, STANISTREET & CO., Calcutta.
New Zealand: SHARLAND & CO., Auckland & Wellington.
South America: DEARBORN (South America), Ltd., Calla
Salta 264, Buenos Aires.

"Jackel's Cream"

(without Grease)
for THE HAIR

Sold everywhere
Established 1883.



CRYSTALLISED
1/9 CREAM 2/6
Trade Mark attached to each
bottle.

"Jackel's Cream"
fixes the hair in any de-
sired position; is un-
excelled as a dressing
and does not soil the
headwear. It removes
Scurf and Dandruff,
keeps the scalp healthy,
and promotes the natu-
ral growth of the hair
while maintaining its
softness and brilliancy.

Prices for Wholesale and Export
Houses on application.

Jackel et Cie (of Paris)
Ltd.,
Sauchiehall Street,
GLASGOW.

"Newbery's"

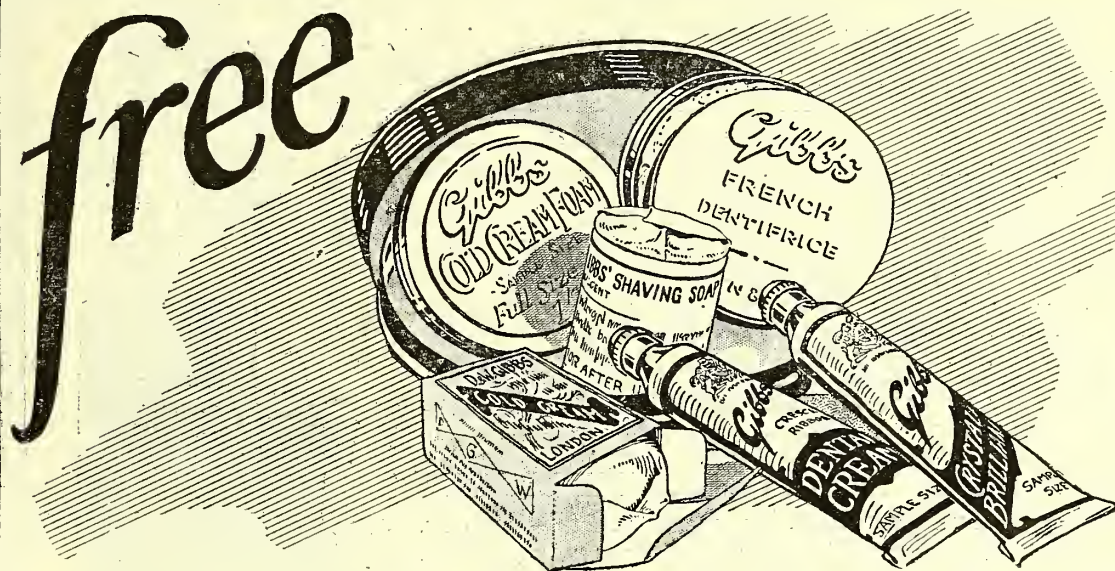
COMPLETE RANGE OF

Packed Pharmaceuticals,
Toilet Preparations,
"Own Name" Packed Goods.

SUNDRIES—

Best British Tooth Brushes,
Hair Brushes, and Shaving
Brushes. Mirrors,
Manicure Requisites, etc.

FRANCIS NEWBERY
& Sons, Ltd.
LONDON & CARDIFF.



A Free Gift to your Customers Brings Profits to you!

HERE is an offer which deserves your keen attention.

It is a plan to make your individual establishment the centre of interest in the celebration of our 210th Birthday.

So far as is humanly possible we have taken care to assure that every household throughout the country will want to buy one or more Gibbs Toilet Preparations before July 28.

They will come to you, Sir, to satisfy their needs because we are telling them that on their purchase of one of the new Shilling Dentifrice or any two

other Gibbs Toilet Preparations you will give them one of our extremely attractive week-end cases. And you know how very potent is an offer of this kind, especially when it is expressed in Gibbs well-known quality.

These Gifts will be supplied to you absolutely free—a letter explaining the whole scheme has been, or is being, sent to you, but if you have mislaid or overlooked this explanation please write to us now for a copy.

The offer closes at the end of this month—July 28 to be exact—so there's not much time to lose, is there?

Gibbs Dentifrice
and other Toilet Preparations

D. & W. GIBBS, LTD. (DEPT. S20), CITY SOAP WORKS, LONDON, E.C.

A SUMMER NIGHT

"Like a Garden in the Gloaming"

An Announcement :

In view of the extraordinary success of "A SUMMER NIGHT," the unique perfume we introduced last year, we have decided at the request of many friends to supplement this with

A NEW 2-oz. SIZE

This new size is put up in oval stoppered bottles, each in an attractive upright box, at 60/- per dozen, as illustrated herewith.

The ORIGINAL 1 oz. "SUMMER NIGHT" similarly packed, is available at 36/- per doz. Terms and Testing Samples on Application.

A Summer Night was regarded as one of the outstanding features of the Chemists' Exhibition Ask us all about it.

PRICE'S, BATTERSEA, S.W. 11.



POWDER PUFFS

Our creations in this line are acknowledged to be UNIQUE, and wherever shown they appeal to the lady of refinement because of their ORIGINALITY of design.

Our Novelties are packed singly in round fancy boxes and bear our gold seal "ROSETTE" with device of basket of roses, which stands for Quality and High-class Workmanship. One dozen boxes are packed to the carton, which packing is most convenient for Shipping. Manufactured throughout by BRITISH LABOUR in our own work-shops under ideal conditions, our Powder Puffs are demanded practically the WORLD OVER.

Markets still open include The EAST, The UNITED STATES OF AMERICA and SOUTH AMERICAN STATES. We kindly invite enquiries from Merchant Shippers catering for these countries confident that there need only be a few of our novelty puffs shown to create a large demand.

J. R. BOURLAT, GOES & CO.,

Manufacturing Specialists in Fancy Powder Puffs to the Wholesale and Shipping Trade ONLY.

22 Princes Road, Holland Park, LONDON, W. 11.

Telephone Nos. : PARK 240 & 2392.

L. LEICHTNER'S GREASE PAINTS, &c.

Now to be obtained from your Wholesaler or direct from the

Sole British Agents—

VANITIES LIMITED

15a Whitcomb Street, Pall Mall East, W.C.2.

PRICE LISTS ON APPLICATION.

All lines in stock.

THE EVAN WILLIAMS' EMULSIFIED COCOANUT OIL SHAMPOOS

in liquid form (2 sizes)

in powder form (packets)

They are well up to the Evan Williams' standard of production, sell freely, and give a handsome profit.

Write for "The Shampoo Salesman," which gives full details of all our Preparations.

THE EVAN WILLIAMS CO., LTD., 18 & 18a Ogle Street, LONDON, W.1.

The largest Shampoo Specialists in the world.



How DE LUZY is Helping Chemists Everywhere

THE Proprietors of DE LUZY—always anxious to co-operate with Chemists in pushing their toilet preparations—have designed many sales helps of a unique character.

A WHITE AND GOLD SEDAN CHAIR of most attractive appearance has been lent by DE LUZY to one firm. A lady representing the charming Marquise DE LUZY has been borne round the streets in the sedan—and sales of DE LUZY have soared high in that town!

Again, we have made charming MINIATURE REPLICAS of our quaint, old-fashioned Chymist Shop used at the recent Exhibition, and these we can offer for window display purposes.

If you are one of the many Chemists who, on half-day or summer holiday,

Take a "Busman's Holiday"—

VISIT OUR SHOWROOMS

without delay. Here you will see our dainty samples, perfumed cards, posters, lantern slides, delightful window and counter displays.

This month we are giving a special form of sales help to London Chemists by our advertising in the "Evening News"—and by our important stand at the "Daily Express" Exhibition at Olympia, July 12th-25th.

See that your stocks of DE LUZY are adequate for the public demand to-day—and in the immediate future.

De Luzy
Crème, Poudre
et Parfums *Paris*

General Manager: W. H. CALNAN
3, LONDON WALL AVENUE, E.C. 2

Telephone: WALL 9966

YOU WANT

and would keenly appreciate, a monopoly in respect of a good leading line for your district.

WE WANT

one chemist in every town, or district in large towns, to stock and push the sale of our

'D.P.'

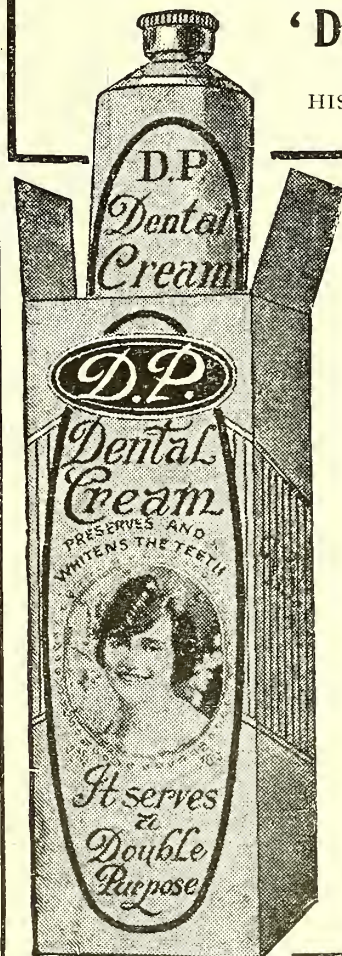
THE
BRITISH
ANTI-FILM
DENTAL
CREAM

DOES WHITEN, POLISH, CLEANSE,
AND PRESERVE THE TEETH AS
NO OTHER DENTIFRICE CAN.

**WE CAN—AND WILL—MAKE IT
WORTH WHILE FOR ONE
CHEMIST TO BE THE**

'D.P.' Man

FOR
HIS DISTRICT.



RETAIL
PRICE
1/6
Large Tube.

TRADE
PRICE
12/-
per dozen.

Subject to
Further
Discounts.

10% 1-gross
lots.

7½% on 6-doz.
lots.

5% on 3-doz.
lots.

Showing a
profit of over
50%

Carr. Paid.
Cases Free.

WRITE US—
**THE SPA
TOILET
COMPANY,
Leamington
Spa.**



2388

NON-SEPARABLE.

1 oz. ...	4/9 doz.
2 " ...	7/- "
3 " ...	8/- "
4 " ...	11/- "

SEPARABLE.

1 oz. ...	5/3 doz.
2 " ...	8/- "
3 " ...	10/6 "
4 " ...	12/6 "



2963

NON-SEPARABLE.

3 oz. ... 8/- doz.

SEPARABLE.

3 oz. ... 10/6 doz.

SHOW CARDS
and
CUSTOMER'S NAME

free on 3 doz. of a style
assorted sizes.



3394

IN OVAL GREEN ENAMELLED
TINS.

7/6 doz. 84/- gross.

Write for full illustrated list and specimens of labels.

Telephone :
HOP 4170
(2 lines).

WILLIAM TOOGOOD LTD
77, SOUTHWARK ST
LONDON, S.E.1.

Telegrams :
"TOOGOOD,
BOROH,
LONDON."

Millions of People

are reading and talking about
the PRO-PHY-LAC-TIC Tooth
Brush in the YELLOW Box

To an ever-increasing public our convincing
advertising is driving home in the monthly,
weekly, and daily Press the merits of the
Pro-phy-lac-tic Tooth Brush in the sanitary
YELLOW Box.

Let the public see the Pro-phy-lac-tic in
your windows—and thus profit by this
advertising.

Pro-phy-lac-tic Tooth Brush

GENUINE only in the YELLOW Box

(Manufactured by the Florence Mfg. Co.,
Florence, U.S.A.)

In three sizes—adult's, youth's, and child's; in three textures
of bristles—hard, medium, or soft; one quality only—each
in its individual YELLOW Box with hook for hanging.

Price to the Public, **2/6**. To the Retailer,
A Full Trade Profit.

Sold through the Wholesale Houses Only.

Wm. E. PECK & CO., Inc.
31 Bartholomew Close, London, E.C.1.





THE SUMMER TIME ACT
has considerably increased outdoor exercises, sports, etc.,
and every sports enthusiast is a prospective customer for

“KETOX”

THE
NEW DISCOVERY
FOR

MAKING YOUR CUSTOMERS IMMUNE from all INSECT BITES.

“KETOX” is a scientific and unique combination of insecticidal and aromatic substances in an agreeable form calculated to repel the irritating attacks of all midges, gnats and biting pests, including the insidious “Harvest Bug.”

PREVENTION is better than Cure.

“KETOX” is attractively packed in actinic green watch-shape bottles (1 ounce)
HANDY FOR POCKET—SACHEL—POUCHETTE

10/- per doz., 108/- per gross. Showcards, etc., supplied.

MANUFACTURED ONLY BY
SOUTHALL BROS. & BARCLAY, LTD.
BIRMINGHAM.

First in the Field

WE are the first to offer products packed by the new Sanitape method with the chemist's own name and address. This new style of packing is a great advance on previous methods. Each tablet is sealed in an airtight wax paper compartment.



Tablet deterioration owing to moisture in the air ceases to be a possibility, nor is it possible for them to be broken by rubbing together. Moreover, there is no need to expose every tablet to the air in order to secure one. Just tear off one or more from the chain of airtight compartments. Sanitape packing is more hygienic, there is no bottle to break or cotton wool to collect dust, and the tablets are always fresh and active. Your customers will appreciate the advantages of the Sanitape pack.



Cascara Sagrada 9/6 per doz.

Aspirin . . . 10/6 per doz.



NOTE.—We only supply 100's, but each 100 is made up with four self-contained 25's. You can make up any quantities required by a customer, and this simplifies your ordering.

W.B. CARTWRIGHT LTD.
RAWDON **NEAR** **LEEDS**

Australia.
 297-299 CASTLEREAGH ST SYDNEY.
 320, FLINDERS LANE, MELBOURNE.

New Zealand.
 161, HEREFORD ST. CHRISTCHURCH.
 CORNER ALBERT & DURHAM STS AUCKLAND.

LONDON :
37 Red Lion St.
High Holborn
 Tel.: Chancery 7416

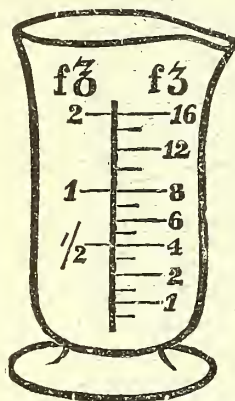
GLASGOW :
Bath Chambers,
65 Bath Street
 Tel. : Douglas 459

MEASURE FOR MEASURE

Everything
in

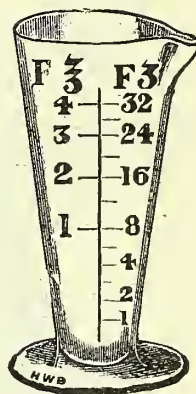
GRADUATED GOODS

For HOME and EXPORT



MEASURES
APOTHECARIES'
METRIC
PHOTO
TONBRIDGE
MINIM

JUGS
WINES
RAIN
GAUGES
MASON'S
WINES
TUMBLERS



HENRY W. BUSH & Co. Ltd.

REMBRANDT WORKS, 32 to 34 COMMERCIAL STREET, LONDON.

THE BEST MEASURE

*Use
Good
Bottles*

CHEMISTS and Druggists demand bottles accurate in capacity and graduations. There are no better bottles produced than those from the U.G.B. factories, which are the largest and most complete in Europe.

We can supply the trade with medical flats, vials, heavy cannons, $\frac{3}{4}$ -panels, blakes, brilliantines, etc. etc.

We invite your enquiries.



UNITED GLASS BOTTLE MANUFACTURERS • LIMITED

Comprising :

Cannington, Shaw & Co. Ltd.; Nuttall & Co. (St. Helens) Ltd.; Robert Candlish & Son, Ltd.; Alfred Alexander & Co. Ltd.; E. Breffit & Co. Ltd.; United Glass Bottle Manufacturers (Charlton) Ltd.

Head Office : 40/43 Norfolk Street, Strand, W.C. 2.

Telephones :
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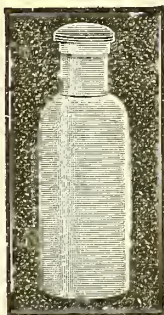
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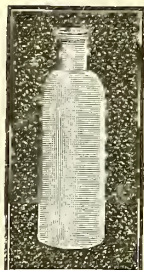
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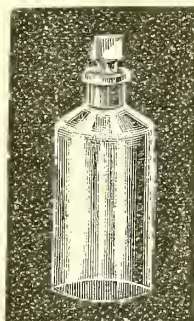


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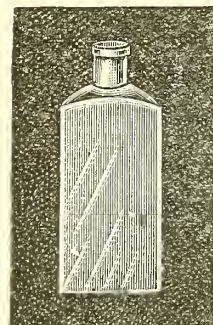


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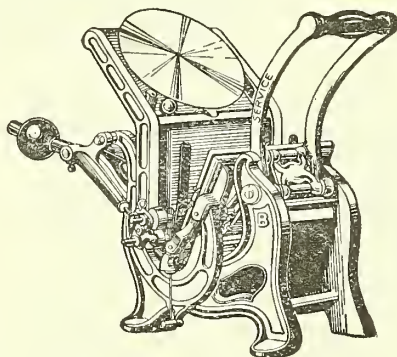
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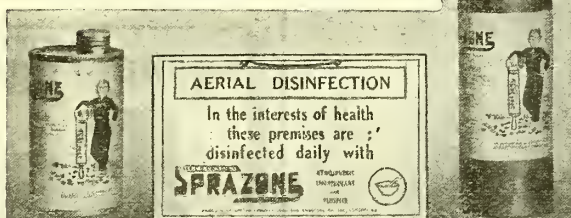
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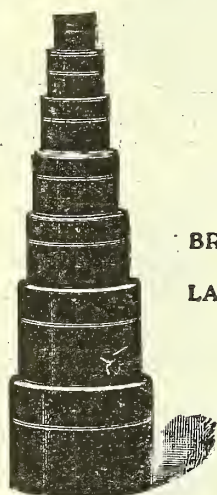
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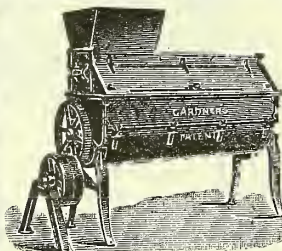
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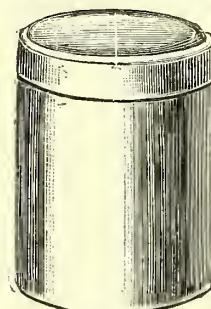
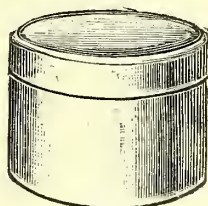
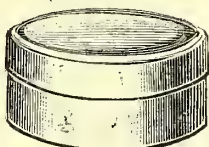
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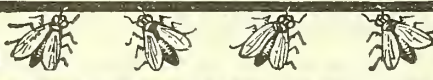
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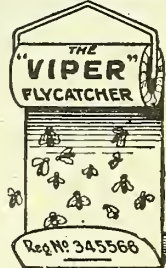
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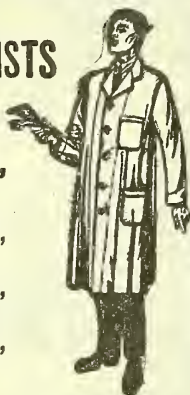
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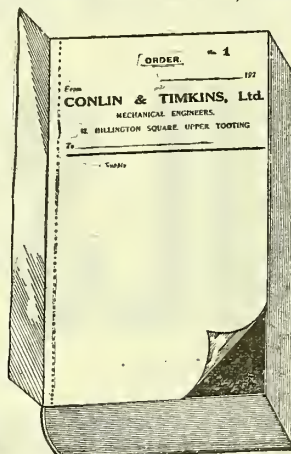
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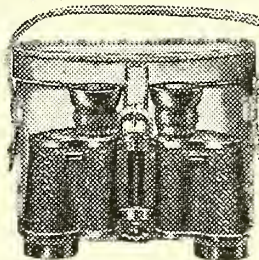
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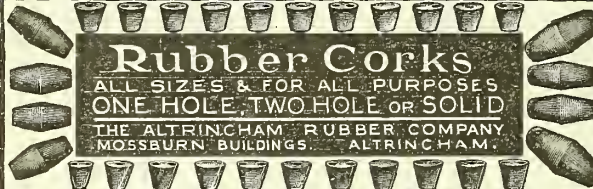
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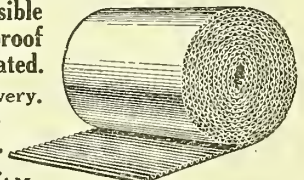
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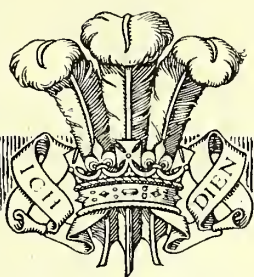
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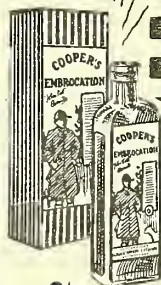
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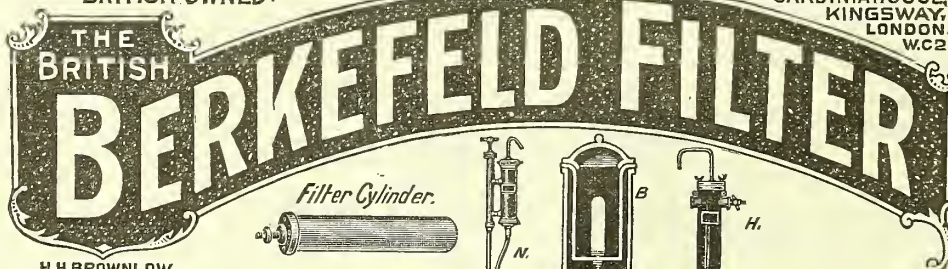
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IN TABLET-LIQUID FORM
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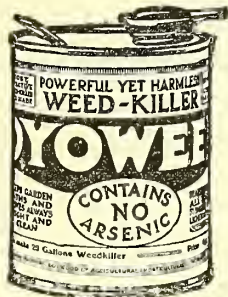
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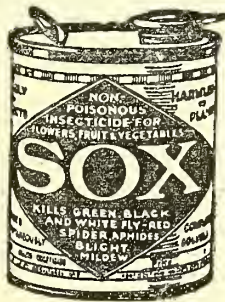
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The Safe Non-Arsenical Weed-Killer

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WE HELPED THEM SELL

and no one has been disappointed! The scheme has proved a great success. The 20 per cent. Bonus offer has caught on—our bold advertising has aroused an enormous demand, and everyone is satisfied. The coupons are being presented in huge numbers at the stores where stock is held—there is a constant passing over the threshold of the traders who make it known that they can accept the Bonus Coupons for "SOX" and "DYOWEED." There is the business pull—there is the magnet which brings people to one store where probably they have previously shopped at another. Gardeners are wanting "SOX" the finest insecticide in the world, and "DYOWEED," the non-arsenical weed killer, because we have given them a direct monetary inducement in the first place, and because they find these preparations the most efficient and economical of all. What are you doing about it? Are you enjoying all the big benefits we have made possible, or are you still unable to put that "magnet" in your window? If the latter is the case, you are losing a wonderful opportunity, because the profits on "SOX" and "DYOWEED" are unusually good, and we are doing everything to create an insistent demand which you can help to fill.

Our special 20 per cent. offer to users definitely closes July 8th, 1922. Your customers must present coupons on or before that date to claim the 20 per cent.

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Please Fill in and Sign (in ink).
(Name of Local To Me)
Address:
Please supply to me under your special 20% reduction, which I accept on the understanding that it does not entitle me to claim the same price elsewhere after a close.
Signed: _____
"Sox" Liquid _____
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Sole Manufacturers of "Sox" and "Dyoweed"
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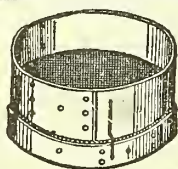
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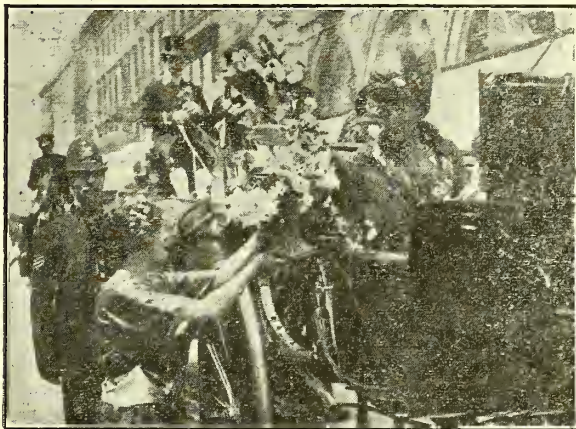
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The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Rose Day Presentation

During the drive of Queen Alexandra through the City and part of the West End on June 21 a pause was made at the offices of A. & F. Pears, Ltd., 71-75 New Oxford Street, W.C., and her Majesty was presented with



a gilded basket of Alexandra roses, among which was a bottle of Pears' lavender water, understood to be her favourite perfume. The accompanying illustration gives some idea of this pleasing incident.

Bowling Challenge Accepted

Mr. J. Hearle, secretary of the "Script" Sports Club, has communicated with Mr. J. T. Simpson, secretary of the Scottish Chemists' Bowling Association, accepting the challenge to an "international" game issued by the Scottish bowlers (*C. & D.*, June 17, p. 40). Mr. Hearle suggests teams of three rinks for a game to be played during the week in which a conference is to be held in London in July 1923. The letter continues:

"I am also instructed to intimate that the 'Script' Sports Club would be pleased to provide a scratch team for a game with representatives of the Scottish Chemists' Bowling Association during the week of the Conference to be held at Nottingham in July of this year, but such game not to be associated with the aforesaid challenge, but as a stepping-stone to next year's proposed international contest."

Contracts

The following tenders have been accepted by the bodies named:

Lewes Guardians.—Boots, Ltd., drugs.
Romsey Guardians.—Mr. F. Oram, Ph.C., dressings.
Watford Guardians.—Mr. T. Chater, dressings; Westmacott & Son, Manchester, drugs.

Poisonings

The following cases of fatal poisoning have been recorded since our last report:

At Blackpool, Helen Grundy, a merchant's widow, aged eighty-eight, died from drinking a smelling-salts solution in mistake for brandy.

An inquest was held by the Westminster coroner, on June 27, on the body of Mr. John Sandford Saltus, a wealthy American subject, who was found dead in his bedroom at the Hotel Metropole, Northumberland Avenue, W.C., on June 23. The coroner's officer said that on the day before his death Mr. Saltus purchased 100 gr. of potassium cyanide at a chemist's shop in Northumberland Avenue for the purpose of cleaning old silver coins. The proprietor of the pharmacy knew Mr. Saltus, who was President of the British Numismatic Society, and had several times previously supplied him

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Index to Vol. XCVI

The Special Issue (June 24) completed Volume XCVI., covering the first half of the year 1922. We have in preparation an index for the volume which will be sent to subscribers who have already intimated that they desire to receive the indices as published. The index is not sent out with THE CHEMIST AND DRUGGIST, but is supplied to all subscribers who send us post-card requests for a copy. Those whose names are already on the list of subscribers who desire to have the index regularly need not send us a further intimation.

A GOOD SIXPENNY WORTH.—The Great Eastern Railway Company has issued, at the price of sixpence, a sixty-four page handbook to the beauties of East Anglia. It is profusely illustrated, and many of the pages in colour are exceptionally well printed.

with cyanide for the same purpose. Other evidence showed that cyanide poisoning was the cause of death, and a verdict of "Death by misadventure" was recorded.

Birmingham

"The trade of the district has made a decided step in the right direction since the drop in wages of June 1," writes a correspondent.

The contributions to the Hospital Saturday Fund by workpeople of local manufacturers connected with the drug-trade have realised over £4,500.

Miss Vera Janet Alcock, daughter of Mr. F. H. Alcock, F.I.C., Ph.C., has gained a first-class honours in Part I. of the natural sciences tripos at Cambridge University.

As the result of a carnival held by the Highfield Cricket Club, of which Mr. F. H. Alcock is President, the General Hospital has benefited to the extent of £5.

Mrs. Barrow Cadbury, J.P., daughter of Mr. Alfred Southall, F.C.S., Ph.C., has been made a member of an advisory committee dealing with the probation system.

At the annual competition of the Midland district of the National Fire Brigade Association, held on June 24 at Wolverhampton, only one holder brigade out of thirty succeeded in retaining the trophy, this being Bournville (Cadbury Bros., Ltd.), in respect of the Mitchell Shield, after close competition by Stafford.—No less an authority than Dr. Henry Coward, Sheffield, was the adjudicator at Messrs. Cadbury's recent annual musical festival.

Leicester.

The unsettled state of the weather seems to have had a depressing effect on trade.

A striking display of Andrews' liver salt is on view at the Evington Road pharmacy, and a novel show of Lestrol is being made there.

Liverpool

Cold and dull weather has checked the sale of summer goods.

Mr. Alexander Lawrence, Great Charlotte Street, is on a holiday in the Isle of Man.

The summer number of the *C. & D.* is described as having exceeded the highest expectations.

Formby links, selected for the return Liverpool v. Manchester pharmacists' golf match, are the finest on the Liverpool and Southport line, and fare the best in drought or deluge.

A tradesman has informed a pharmaceutical neighbour that last week was the worst in his trading experience. He added: "An abscess on the jaw made it seem the limit."

Alderman R. C. Herman (R. & J. Herman, chemists) was installed in the Senior Deacon's chair at the Provincial Grand Lodge of West Lancashire Freemasons, held at Lancaster on June 14.

Mr. A. L. Rogers, who for many years was a representative of Evans Sons Lescher & Webb, Ltd., has taken up an appointment with Banks & Dalrymple, wholesale chemists, 74 North Hill Street, and will represent them in the Midlands.

Manchester

A new business has been opened by Mr. H. S. Johnson, chemist and druggist, at 259 Great Cheetham Street, Higher Broughton, Salford.

Mr. R. G. Edwards, chemist, Fallowfield, announces in his photographic window the fact that a Fallowfield boy has won the first prize (£25) in the Kodak monthly competition (junior section).

The Summer Number of the *C. & D.* has caused numerous expressions of admiration and commendation. In Cottonopolis it is recognised as a wonderful volume of information, particularly as regards the section, "The Progress of Pharmacy."

A model x-ray department at the Housing and Health Exhibition has been equipped throughout by Mottershead & Co., chemists, Exchange Street. A small charge is made for admission to the exhibit, for the purpose of raising funds for the Salford Royal Hospital.

The City Exhibition Hall had a narrow escape from destruction on June 25. In the early hours of the morning the night watchman noticed a strong smell of something smouldering, but, not being able to allocate the cause, telephoned for the fire brigade. On arriving, they discovered several square feet of boarding well alight underneath one of the stalls of the Housing and Health Exhibition at present there. The fire was soon extinguished.

At a recent meeting of the council of the Manchester Pharmaceutical Association it was decided to accord the patronage of the Association to the Manchester Chemists' Exhibition, which opens on November 20. It is accordingly announced that the Exhibition is held under the auspices of the Manchester Pharmaceutical Association. The number of leading manufacturers who have already taken space is at present about forty. During the Exhibition a mass meeting of the Retail Pharmacists' Union will be held at the hall.

Nottingham

"Business has never been so quiet for years" was the expression used lately by one of Nottingham's leading chemists.

A sub-department in bacteriology has been organised at University College. It will be the primary aim of the sub-department to investigate such problems as have an important local bearing; one upon which research is now being conducted is that of the causes of deterioration of cotton, woollen and silk goods and yarns in storage. Another problem of considerable local interest is that of the pollution of the Trent. The sub-department is also prepared to undertake consultant work and investigations on the causes of defects in timber and in various food products. The Council has appointed Mr. H. S. Holden, D.Sc., F.L.S., to the directorship of the sub-department, and all inquiries should be addressed either to him or to the registrar of the College.

Sheffield

Quite a number of tradespeople, it is understood, are unable to meet demand notes for rates.

G. W. T. Newsholme, Ltd., are carrying out an advertising campaign in connection with their corn-cure.

A cricket match, employers v. employees, is to take place shortly at the junior's grounds at Malin Bridge.

Mr. J. Gilbert Jackson, jun., has passed his final B.Sc. examination, with honours in chemistry, at Sheffield University.

A spark from a neighbouring chimney recently caused an outbreak of fire at 187 Shirebrook Road, the residence of Mr. J. W. Lofthouse, chemist and druggist. The fire brigade had some difficulty in getting control of the situation.

Miscellaneous

FIRE.—There was an outbreak of fire, on June 22, at the rear of the shop occupied by Mr. J. Allan, chemist and druggist, Abbey Hills Road, Oldham. The damage was not extensive.

UNAUTHORISED POSSESSION OF COCAINE AND OPIUM.—At Neath, on June 20, Ah Chow, ship's fireman, was sentenced to six months' hard labour for harbouring, *inter alia*, 65 gr. of cocaine.—At Grimsby, on June 23, David Davis, bootmaker, was sentenced to four months' hard labour, and was ordered to pay fines amounting to £60, for importing and concealing cocaine and for attempting to bribe Customs officers.—At Cardiff, on June 24, August Strohm, a German subject, was fined £200 for being in unlawful possession of cocaine. Mr. A. S. Johnson, chemist and druggist, a director of Robert Drane, Ltd., chemists, stated that as the result of an analysis he found over $\frac{1}{2}$ oz. of cocaine in the boxes handed to him.—At Bristol Police Court, on June 24, a Chinese sailor was charged with being in unlawful possession of 1 lb. 12 oz. of opium, which had been found on board his ship rolled into small canvas-covered sticks. The captain of the vessel gave evidence to the effect that the seamen aboard all smoked opium, and that the quantity discovered was not large enough to have been brought over for the purpose of selling. A fine of £8 was imposed.

Irish News

Brevities

Mr. James E. O'Neill, J.P., chemist and druggist, Maghera, has been re-elected vice-chairman of Londonderry County Council, and thanked for his services during the past year.

Belfast

Sir Wm. Whitla, M.P., M.D., L.P.S.I., has been appointed on the new advisory committee in connection with charitable donations and bequests in Northern Ireland.

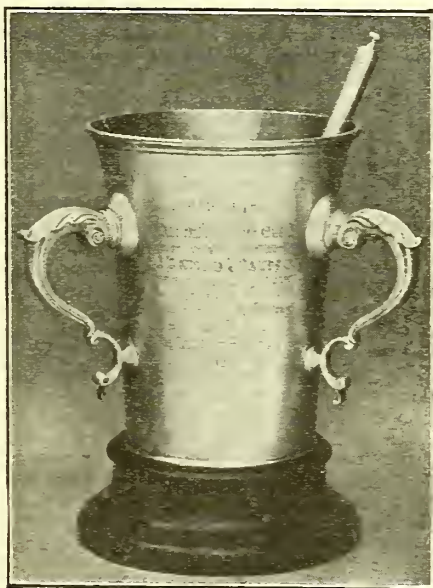
At Belfast Children's Court, recently, two boys were charged with breaking into the premises of Thomas McMullan & Co., wholesale druggists, Victoria Street, and stealing soap and candles. Both were placed on probation.

At Belfast Recorder's Court, on June 23, Mr. Thomas Finegan, Ph.C., Royal Avenue, was awarded £275 by consent in a claim for £1,725 for damage to his pharmacy during rioting.—Incendiaries were caught by the police while attempting to set fire to the premises of Colter & Co., chemical merchants, Gloucester Street. Three escaped and one was fatally wounded.

Scottish News

David Waldie Memorial

The presentation of the David Waldie loving cup, briefly referred to in last week's issue (p. 132), took place after the "fencing of the court" at Linlithgow Marches. Ex-Bailie Alexander Spence, chemist and druggist, Leslie, after speaking of the efforts made to raise funds for the cup, called upon his wife to present it to the Provost. The cup was subsequently used when the Town Council arrived at the Old March Inn to pay their



WALDIE LOVING CUP

customary annual visit to the Fraternity of Dyers. Mr. William W. Spence, chemist and druggist, deacon of the Dyers, in the course of his reply to the invitation of the Provost to partake of the cup, made references to the connection of Mr. George Waldie, chemist, with the Dyers, to the efforts of ex-Bailie Alexander Spence concerning the memorial, and mentioned that he (the speaker) is in business in the premises where David Waldie lived.

Golfing Competitions

Edinburgh Chemists' Golf Club held a bogey competition over Ferryhills course, North Queensferry, on

June 21, with the following result: (1) Mr. J. Adam and Mr. D. S. Philip (equal); (3) Mr. R. D. Douglas and Mr. A. E. Kelly (equal). The next competition will be held over Bruntisfield course, on July 5, for the Pinkerton Gibson trophy.

The annual competition for the Rainy Brown golf trophy was held over Milngavie course recently, when the Edinburgh golfers were the guests of their Glasgow *confreeres*. The latter winning by four matches, as the following results show:

Edinburgh		Glasgow	
A. J. Clark	1	W. Wood Wilson	0
J. D. Lunan	1	A. Watt	0
J. Finlay	1	B. Christie	0
D. S. Philp	0	R. Jack	1
A. J. Kearney	0	D. G. Mackenzie	1
J. Manson	0	J. Bell	1
J. Sutherland	0	J. Anderson	1
H. Brindle	1/2	G. McDonald	1/2
R. D. Douglas	1	G. McLennan	0
G. G. Davidson	0	W. McDavid	1
A. F. Dawson	0	W. Thomson	1
K. J. McLennan	0	J. Houlston	1
W. T. Robson	1	G. Grierson	0
J. P. Gibb	0	J. M. Hart	1
D. Milne	1	A. McEwan	0
J. Noble	1/2	A. Saunders	1/2
J. Robertson	0	W. Seivwright	1
W. Oliver	0	W. Moffat	1
E. Brindle	0	T. McMaster	1
G. Baxter	1	W. Galbraith	0
	8		12

The trophy was presented to the winning team by Mr. G. Mackay, and suitable replies were made by Mr. A. J. Clark and Mr. W. Wood Wilson, the respective captains.

Brevities

The death is announced of Mr. George Sutherland, J.P., aged seventy-two, who was for over thirty years manager of Millburn chemical works.

Kingussie, which is stated to be the only town in Scotland without telephone facilities, has decided to petition the Postmaster-General on the subject.

A fine of 10s was recently imposed on each of five Glasgow chemists for failing to exhibit the required notice when the shop is kept open after 7 p.m., the time stated in the closing order.

The death is announced of Mr. William Beaton, Nether Boydnie, Fraserburgh, a well-known farmer who served an apprenticeship in pharmacy and was for several years in a London business. Mr. Beaton was seventy years of age.

Wills

MR. FREDERICK BROMWICH, 68, Manor Road, Stamford Hill, London, N., late representative for Howards & Sons, Ltd., Ilford, who died on April 3, left estate of the gross value of £1,514 10s. 6d., with net personalty £1,575.

MR. EDMUND VANNUCELLI SALAMAN, Egerton House, Egerton Park, Rack Ferry, Birkenhead, a director of Lever Bros., Ltd., and chairman of the Vinolia Company, Ltd., who died on March 23, has left property of the value of £25,468 3s. 8d.

BARON MANTON, of Compton Verney, better known as Mr. Joseph Watson, of Joseph Watson & Co., Ltd., Whitehall Soap Works, Leeds, who died on March 13, left property provisionally valued for probate at £1,000,000, "so far as at present can be ascertained."

MR. GEORGE CUSSENS, Nythfa, Llysfaen, Carnarvon, late of Ramsbottom, Lancs., founder of George Cussons, Ltd., scientific apparatus makers, who died on February 10, left estate of the gross value of £17,382 2s. 1d., of which £12,469 17s. 8d. is net personalty. Probate of his will has been granted to his son, George Wilfrid Cussons, scientific apparatus maker. The testator left 100 £1 shares in George Cussons, Ltd., to Ashby Walter Johnson, works manager, if in the service of the company at his death.

Legal Reports

A Claim for Rent.—In Spalding County Court, on June 14, Harry Pye, chemist and druggist, Bridge Street, was sued by George Watson, who claimed £42 rent from October 11, 1921, to April 6, 1922. It was stated that the defendant, who did not appear, had been in occupation for fourteen years under a lease which expired on October 11, 1921, on which date the plaintiff completed his purchase of the property. For the following half-year he had received no rent. Judge Sir Sherston Baker pointed out that the lease had expired, and that all the plaintiff could do was to give the defendant notice to quit. The judge non-suited the plaintiff, who, added his honour, should have asked for an ejectment order.

Bottle Claim.—In the Shoreditch County Court, on June 23, before Judge Cluer, the Eclipse Glass Works, Ltd., Eclipse Works, Lea Bridge, Clapton, sued the Chemical and By Products, Ltd., Rickmansworth Road, Watford, to recover £2 15s. 10d., alleged to be due on an order for bottles. The defence put in was that only £1 13s. 10d. was due, as a proportion of the bottles broke as they were faultily annealed, and a cheque for that amount had been tendered. Mr. Dickson appeared as counsel for the plaintiffs, and mentioning that the defendants were not present, he asked for judgment, and a fee for counsel, but Judge Cluer said the matter was too trivial. Mr. Dickson pointed out that the matter raised was the quality of the goods supplied. Judge Cluer: How can I grant a counsel's fee over a £2 15s. dispute? Mr. Dickson: The quality of the goods is the point. Judge Cluer: There is nothing in that; it is just a few bottles. As a member of the Bar I will say that it is quite right to employ them in such cases, but I cannot allow the fees. Mr. Dickson: Your Honour will understand that we had no reason to suppose that the defendants would not defend, and then raise the important point as to the quality of the bottles. Judge Cluer: That does not justify counsel's costs. Judgment for the plaintiffs for £2 15s. 10d., and costs.

Levy on Chemical Firms.—Mr. Justice Bailhache, in the King's Bench Division on June 26, heard a petition of right presented by Hickson & Partners, Ltd., Bradford; Sharp & Mallett, Ltd., Halifax; Brotherton & Co., Ltd., Leeds; and R. Graesser, Ltd., Ruabon. Sir John Simon, K.C., for the suppliants, said they claimed the balance of their account for supplying in the one case T.N.T. and in the others picric acid to the Government. When they asked for the balance of the contract price they were met with the answer that the Crown was entitled to keep the rest of the money, regarding it as a contribution from these different manufacturers under the Munitions (Liability for Explosions) Act, 1916, towards a fund which was to be available in the event of explosions causing damage to life or property of third parties. The total amount which the suppliants said was still due to them was £60,000. His (counsel's) case was that the deductions were not authorised by the statute, and that the Crown had levied a contribution upon these manufacturers which was out of proportion. At this stage the hearing was suspended for a consultation between Sir John Simon and the Attorney-General (Sir E. Pollock, K.C.), for the Crown. It was afterwards announced by Sir John Simon that they had come to an agreement, the terms of which were not disclosed, and that the Crown had consented to pay the taxed costs of the suppliants. The record was accordingly withdrawn.

Dangerous Drugs Act Case.—At Cheltenham Police Court, on June 19, Mr. William John Thomson, chemist and druggist, Montpellier Walk, was summoned on eight informations, under the Dangerous Drugs Act, for having failed to keep on his premises prescriptions for morphine pills which he had dispensed. The offence was admitted. A police witness stated that the defendant was very frank in the matter when inquiries were being made into the case, and said he had either given the prescriptions back to the customers or destroyed them. Mr. Pruen, who appeared for Mr. Thomson, said the

offence amounted to a technical breach of the Regulations. At the time they came into force the defendant was taking over the business, and having the idea in his mind that the Regulations referred to cocaine he omitted to retain the morphine prescriptions. It was an oversight, and no one regretted it more than the defendant himself. The Mayor said the Bench agreed that it was most important, having regard to what had been taking place in the country, that all chemists should make themselves conversant with these Regulations. As this was the first case that had been brought to the notice of the Bench, they imposed a fine of 5s. on each summons—£2 in all.—At Glasgow Sheriff Court, on June 21, Janet Blackwood, described as an unqualified chemist, Shawlands, and C. G. King, M.B., C.M., Pollokshaws Road, were fined £50 each under the Dangerous Drugs Act. It was stated that Dr. King had irregularly procured certain drugs from Blackwood, who was not licensed to be in possession of them, and had failed to enter particulars of the drugs dispensed by him in a day book or register.

Printing Trade Envelopes.—In the Mayor's and City of London Court, on June 20, Mr. W. H. Gullick, printer, trading as W. H. Gullick and recently as Thornton, 78 Milton Street, London, E.C., sued Orthopedist, Ltd., foot appliance manufacturers, Granville Place, King's Cross Road, for £10 19s. for envelopes printed for them for Dr. Scholl's Bunion Reducer, which they were supplying to chemists. Mr. S. A. Jones, for plaintiff, said that in August 1921 plaintiff employed a man named Thornton, who obtained the order in question from the defendants in January of this year for the supply of 15,000 envelope bags. These were printed and duly supplied. Mr. Marks, for defendants, said the envelopes were not according to sample, and therefore were returned. The action ought to have been for damages for refusing to accept the goods. Judge Jackson said he would amend if necessary. Mr. Gullick, the plaintiff, said Thornton took the order in question, and the goods were delivered on February 10. He heard nothing more about them until February 27, when the goods were returned with a letter stating that they were useless. The paper bags were printed on greaseproof paper, which was not nice stuff to print on. In cross-examination he said Thornton did not tell him that the printing was to be done in bronze-blue ink. On the outside of the bags were directions to purchasers from chemists as to the use of the Bunion Reducer, and it was necessary that the lettering should be legible. Defendants in a letter said the ink was wrong and not dry enough, and that it smudged when the hand was passed over it. Judge Jackson inspected a box of envelopes and said he would see if they would smudge. They did not. He did not think there was much the matter with them. John Seymour, defendants' manager, said when he gave the order plaintiff's man said he could deliver them quickly. He was very emphatic in pointing out the distinction in the colour of the ink so that it should be suitable for goods that went inside. They had six different kinds of Bunion Reducers. If the bags now before the court were sent out with smudges on them chemists would object to them. Judge Jackson said he found that the goods having been thoroughly examined were found to be a little damp, but he thought they were reasonably fit for the purpose for which they were ordered. He did not think they were quite up to the mark, and he would take off £2 19s., giving judgment for the plaintiffs for £8 and costs.

German Dental Goods.—In the King's Bench Division, on June 22, Mr. Justice Sankey heard an action by James Cairns, Grosvenor Road, Canonbury, London, N., against Alfred Margand, 11 Gloucester Place, Brighton, in which the plaintiff asked for an account in connection with a sum of £252 lent to the defendant for the purposes of a joint venture for the purchase of dental requisites in Germany, including a quantity of dental cement. Mr. Melville, for the plaintiff, explained that the defence was that the plaintiff should put up £3,000 for the purpose of a partnership for the purpose of buying in Germany a quantity of dental requisites at good prices, but owing to the failure of plaintiff to do that

defendant had lost a great deal of business and profit. The facts were that the two decided to go to Germany together to purchase the appliances, and plaintiff advanced £252. Owing to the rate of exchange considerable profit could be made upon the resale of the goods. In fact, defendant purchased dental cement at from 1s. 9d. to 2s. 3d. a box. Mr. Cairns returned to England, leaving the defendant to go on to Berlin. He had not received an account of the expenditure of the money he had advanced. The onus being upon the defendant to prove a counter-claim, Mr. Margand said the idea was to obtain sole agencies with German firms for dental appliances and to form a business in London for the sale of dental goods. Plaintiff was to put up £3,000 and share in the partnership and assist in the business. They decided to go to Germany together, and on the way plaintiff paid him £100. At Cologne they obtained a contract for the sole agency in England of dental rubbers, and at Wiesbaden they got another agreement for the sole agency for teeth. Witness also bought ninety-four packets of dental cement, which plaintiff brought back to England with him. Witness also got the sole agency for a patent self-raising dental chair, but owing to the failure of the plaintiff to put up the necessary capital defendant had lost a deposit and profit. When witness got back to London he found that plaintiff had sold some of the packets of cement at 5s. and others at 10s., which witness told him was not businesslike, and eventually disagreements ensued, with the result that plaintiff declined to go on with his bargain, and witness had sustained a considerable loss because of his inability to carry on the agencies. Plaintiff also failed to account for about £18 worth of cement. Witness still had on hand a stock of diatoric and pin teeth purchased in Germany for the partnership. In cross-examination Mr. Margand said the chair agency was a very valuable one. Plaintiff was represented to the manufacturers in Germany as a partner in "Margand's, Ltd." Witness paid 4s. a box for the cement, and not 1s. 9d. and 2s. 3d. as the plaintiff averred. Mrs. Margand corroborated her husband's statement that plaintiff said he would put £3,000 or more in the venture, as he thought there was a little fortune to be made on the sale of German dental goods. Mr. Cairns, a merchant, said defendant asked him if he would risk £250 on a venture in German dental goods, which could be sold at good profits. Defendant also said he could get some good agencies, and plaintiff said that if that were so they might be able to commence business together. Witness was struck with the possibilities in the sale of Harvard cement. It was not a fact that he promised to put up £3,000. Continuing his evidence on June 23, Mr. Cairns said he had heard a great deal about the good value of Harvard dental cement, and was struck with the prospect of the agencies the defendant said he could obtain, and because of that he put up the £252 about which he now asked for an account. His lordship said the dispute was an unfortunate one, and was entirely due to the action of the parties, who, thinking Germany was a trading gold mine, hastily took themselves off to that country upon a sort of verbal agreement commenced after a meeting on the Brighton front. The difficulty was that there was no agreement in writing. The principal question was whether the plaintiff promised to put up £3,000 for the joint venture, and his lordship thought, although the plaintiff may have said he would risk £3,000 if the gold mine appeared, he did not definitely promise to find that sum. Therefore the defendant's counter-claim for damages failed. His lordship held that the plaintiff was entitled to £147 upon his claim, and entered judgment for the plaintiff upon the claim and counter-claim, with costs.

THE 1922 TESTS for candidates for the post of house pharmacist in the Paris asylums consisted of the identification of twelve drugs and plants and fifteen medications, oral questions on pharmacy and chemistry, a written chemistry paper on bromine and bromides, a pharmacy paper on the extracts of ipecacuanha, aconite, and syrup of iodide of iron, and a materia medica paper on the mydriatic solanaceous plants.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

CHARLES WILSON & Co. (LONDON), LTD. (P.C.).—Capital, £15,000. Objects: To carry on the business, among others, of a wholesale and retail chemist. R.O.: 1, Lisson Grove, Marylebone, London, N.W.1.

S. O'FARRELL, LTD. (P.C.).—Capital, £400.—Objects: To carry on the business of chemists and druggists, oil and colourmen, etc. Mr. S. O'Farrell, 33 North Strand, Dublin, is governing director. R.O.: 33 North Strand, Dublin.

BAINES' DIELECTRICS, LTD. (P.C.).—Capital, £100. Objects: To carry on the business of patent medicine manufacturers and vendors, chemists, druggists, chemical manufacturers, etc. Solicitor: J. B. Somerville, 11, New Square, Lincoln's Inn, London, W.C.2

CHARLES WILSON & Co. (LONDON), LTD., (P.C.).—Capital, £15,000. Objects: To carry on the businesses, which include that of a chemist, and to adopt an agreement with C. W. Harris, R. S. W. Sears, and H. C. Harris. R.O.: 1 Lisson Grove, Marylebone, London, N.W.1.

A. E. WALKER (NELSON), LTD. (P.C.).—Capital £300. Objects: To take over the chemists' business of A. E. Walker and Co., at 179 Leeds Road, Nelson. The first directors are: L. A. Fewster, 123 Netherfield Road, Nelson; J. Walker, West Lea, Skipton; and J. W. Longland, 60 Howarth Street, Rishton. R.O.: 179 Leeds Road, Nelson.

HOWCROFTS, LTD. (P.C.).—Capital, £500. Objects: To acquire the business of Florence Howcroft at 74 Blackburn Road, Bolton, and to carry on the business of chemists, druggists, stationers, wine merchants, dealers in photographic and surgical goods, etc. The first directors are: Frank and Mrs. Florence Howcroft, 74 Blackburn Road, Bolton; and N. Hulme. R.O.: 74 Blackburn Road, Bolton.

ARTHUR REES, LTD. (P.C.).—Capital, £2,000. Objects: To take over the business of retail chemists and druggists carried on by the American Drug Supply Co., Ltd., at 4 Northumberland Avenue, W.C., as "C. Brooks." The first directors are: A. H. and Mrs. M. K. Rees, 1 Rosemont Mansions, Lithos Road, Hampstead; and R. L. Bevan, "Macnevin," Mary Street, Porthcawl, Glam. R.O.: 4 Northumberland Avenue, Charing Cross, London, W.C.

"SOLOMIA" (1922), LTD. (P.C.).—Capital, £8,000. Objects: To manufacture and deal in an insecticide and fungicide, or preparation for the killing of insects and destruction of fungoid growths, called "Solomia," to acquire the sole rights of manufacture and sale thereof, and to enter into all necessary agreements with Z. J. Solomides. The first directors are: K. A. Layton Bennett, 8, Pilgrim's Lane, Hampstead; Z. J. Solomides, Holme Court, Isleworth; and G. F. Sanger, 59 Gwendwr Road, Barons Court, London, S.W. R.O.: 31 and 32 Broad Street Avenue, London, E.C.2.

J. HOARE, LTD. (P.C.).—Capital, £1,000. Objects: To carry on the business of manufacturers and dealers in corn cures and other medicines and mechanical and surgical appliances, connected with the feet or other parts of the body, manufacturers and repairers of and dealers in leather, boots, etc. R.O.: 84A Brigstock Road, Thornton Heath.

FLEETWOOD CHEMICAL CO., LTD. (P.C.).—Capital, £2,000. Objects: To take over the business of chemical and colour merchants and manufacturers of chemicals, colours, paints, oils, and drysalteries, carried on by C. G. Fleetwood, W. A. Halstead, and Edith S. Fleetwood at St. Dunstan's Building, St. Dunstan's Hill, E.C., as the "Fleetwood Chemical Co." The permanent directors are: W. A. Halstead, 2 Lynbridge Gardens, Hazelwood Lane, Palmer's Green; C. G. Fleetwood, 77, Hopper's Road, Winchmore Hill; and Miss Edith S. Fleetwood, 3 Terrett's Place, Upper Street, Islington. R.O.: 9 Prince Street, Deptford, London, S.E.8.

BRITISH CYANIDES CO., LTD.—The British Cyanides Company states that the Government have undertaken to meet the company's claim by a payment of £25,000, and at the same time to reimburse the company for all reasonable costs in connection with the settlement. For the whole year to April 30, 1921, there was a net profit of £20,046, but in the second six months of that period a loss of £25,100 was shown. A further loss was made by writing down stocks to current values, and the net loss was £59,598. This was met mainly by the transfer of £50,000 from reserve, and a credit balance was carried forward of £958.

THE "SANITAS" CO., LTD.—The annual general meeting was held at the Abercorn Rooms, Liverpool Street, London, E.C., on June 21, under the presidency of the Chairman, Mr. C. T. Kingzett, F.I.C., F.C.S. The Chairman said, having regard to the depressed state of trade, the great lack of export business, and notwithstanding the necessity of further writing down the value of stocks in view of fallen prices, the company had done as well as could be expected in the year under review. The turnover had amounted to little short of the best years of the company's history, a state of things which reflected great credit upon the managing director, Mr. Norman F. Kingzett, and his staff, in very trying times. The profit on the year's trading sufficed to pay the full dividend of 9 per cent. on the preference shares and $4\frac{1}{2}$ per cent. on the ordinary shares. It was a matter of satisfaction to the Board that they had been able, recently, to reduce the retail prices of their chief retail articles, "Sanitas Fluid" and "Sanitas Powder," and gratifying to know that the sales of "Sanitas Fluid" in bottles had exceeded in number those of any previous year. Their association with the great firm of Lever Brothers, Ltd., continued to be of the most satisfactory character, and the Board looked forward with confidence to a continuous expansion of business.

PARKE'S DRUG STORES, LTD.—The twenty-seventh annual general meeting was held at 65, Harwood Street, N.W., on June 23, Mr. Darryll Warnford-Davis, the chairman of the company, presiding. The secretary (Mr. M. Cashmore) read the notice convening the meeting and the auditors' report. The chairman, before moving the adoption of the report and accounts, referred in fitting terms to the loss the company had sustained by the death, last December, of Mr. John Murison, the late chairman and managing director. Referring to the financial position at February 28, 1922, he said that sundry creditors were down by £11,971, while the bank balance was up £2,522. The stock, however, was down by £13,354. They had been able to carry on business with a reduced stock which had set free considerable funds, thus improving the cash position. The lower figure for the stock was not entirely the result of more conservative buying, for there had been during the past year a further fall in prices, and it was owing to that fact that there was not a larger balance of profit. They had hoped that the depreciation had ended last year, but such was not the case, as during the year they had had to face a large decrease in values. It was absolutely necessary for the prosperity of the business to see that their stock was a very sound one. Consequently, all the articles in their shops and warehouse had been taken in at present-day market prices, or under. There was one achievement of which the directors were rather proud, and it was that, in spite of the general fall in prices, the company's sales for the last year had scarcely fallen at all in comparison with the previous year's. It was therefore obvious that they had sold a considerably increased quantity of goods. As a matter of fact they had during the year increased the number of their customers by well over 12,000. Last December Mr. Edward Salthouse was co-opted a director of the company. That gentleman had been right through the mill, and, after having gained considerable experience of the retail end of the business, he had been manager of the warehouse for several years; consequently, they were confident he would prove a most efficient managing director. The report was unanimously adopted. On the motion of the chairman, seconded by Mr. Thomas Chatto, it was resolved to pay a dividend of $2\frac{1}{2}$ per cent., less income-tax, on the ordinary shares for the half-year,

making, with the interim dividend of 5 per cent. already paid, $7\frac{1}{2}$ per cent. for the year.

BRITISH DYESTUFFS CORPORATION, LTD.—The third ordinary general meeting was held in Manchester on June 23, Sir William Alexander, K.B.E., chairman of the Board, presiding. In opening his speech, the chairman referred to the resignation of Sir Henry Birchenough as chairman and of Sir William Aykroyd as director. Dealing with the year's results, which show a net loss of £1,006,660, from which is deducted £203,304 brought forward, Sir William said:—"You will observe that the revaluation of our stocks at the market prices current on October 31 last has involved a total writing off of £1,444,343. Since that date there has been a further slight fall in values, for which provision will require to be made in the accounts of the current year." Economics aggregating approximately £200,000 per annum had been effected. "In view of the criticisms which have recently been expressed," said Sir William, "the directors are reluctantly compelled to refer to the decision which under the agreements with Sir Joseph Turner and Dr. Levinstein, as managing directors to the company, were terminated in February, 1921. Unfortunately the personal antagonism between the two managing directors rendered it impossible to secure that co-operation and *esprit de corps* which are so highly essential to the welfare of your undertaking. Dr. Herbert Levinstein has recently resigned his seat on the Board, having previously been informed that his re-election would not be supported by his colleagues. I must also make some reference to the re-election of Sir Joseph Turner. Speaking from the intimate knowledge which I have gained of the company's organisation during the last few months, I am bound to say that the re-appointment of Sir Joseph Turner would, in my opinion, tend to reopen among the staff some of the old sores which are well on the way towards being healed. I regret having to make this announcement." Dealing with German competition, Sir William said:—"The position at the moment is one of great delicacy. Important negotiations are in progress both with the Government and with the colour users which may have an important bearing on the future of the industry."

Informal discussions have taken place between the representatives of the German dye-making industry and those of the company. The object of these discussions has been to discover, if possible, a plan which will secure a satisfactory working arrangement between the dye-makers in Germany and those in this country. Whilst we would welcome an arrangement with the German undertakings, it must be on such terms as will leave inviolate the principle upon which your undertaking was founded—namely, the establishment of a dye-making industry in this country adequate to our needs both in peace and in war.

At a later stage the chairman said:—"I must now refer to the speech which Dr. Levinstein has delivered to a number of members of Parliament. The burden of his complaint appears to be that your corporation has been under the control and influence of the Government. That is clearly a matter of public interest, and Dr. Levinstein is entitled to confer with members of Parliament with a view, it may be, of eliciting explanations from the Government. As I have received a request to address the members of the Commercial Committee of the House of Commons in reply to Dr. Levinstein, I must ask you to allow me to reserve my evidence in refutation of Dr. Levinstein's statements for that occasion. I am led to speak to you in this manner by the very sincere hope that this meeting will mark the end of the far-too-long period of personal controversy, and that you will give us your confidence to go forward in a new atmosphere with our task of establishing the British dyestuffs industry, which is demanded by national safety and by national pride." The resolution to adopt the accounts was subsequently put to the meeting, and by a show of hands was declared by the chairman to have been carried easily, but a poll was demanded, and the result of this was as follows:—For the resolution for the adoption of the report, 2,320,637; against, 1,086,023; majority for the resolution, 1,234,614. The Government proxies, representing 1,700,000 votes, were not exercised.

Westminster Wisdom

By the "C. & D." Parliamentary Representative

ALKALI WORKS REGISTRATION FEES

A clause has been added to the Finance Bill to double the stamp duties chargeable on certificates of registration of alkali works from April 1, 1923.

A NEW PHARMACY BILL

In the House of Commons, on June 30, Captain J. O'Grady presented a Bill, which was read a first time, to "regularise" the position of all persons trading as chemists and druggists or pharmacy store proprietors in the sale of drugs, the dispensing of doctors' prescriptions, and the sale of patent medicines. Captain O'Grady presented a similar Bill in the last session of Parliament.

COCAINE

Dr. McDonald asked the Minister of Health, on June 21, if he is aware that cocaine is not a drug which is essential to the medical and dental professions, owing to the manufacture of many less toxic substitutes; and will he therefore take steps to prohibit the importation of so pernicious a drug into this country, if necessary, by legislation.

Sir J. Baird, who replied, said that the Home Office is in consultation with the Ministry of Health as to the need for cocaine in medical and dental practice, and he was not prepared at present to express any opinion as regards the suggestion in the first part of the question. As regards the second part of the question, the importation of cocaine except under Home Office licence is already prohibited.

DUTY ON SPIRITS

Causes Unemployment

Major Kelley asked the Chancellor of the Exchequer, on June 20, whether he is aware that a firm of perfumery manufacturers, which for many years used an average of 6,000 gallons of alcohol yearly, only purchased 100 gallons in four months this year, owing to the rise in the cost of spirit used in perfumery from 20s. per gallon in 1914 to £5 per gallon now; that this firm has been forced to dismiss sixty skilled employees; and whether he can find means of relieving the burden of taxation that is crushing the perfumery trade.

Sir J. Baird replied that the Chancellor of the Exchequer is not aware of the particular case referred to, but he would ask him to await the debate on the Committee stage of the Finance Bill, when a new clause is being moved dealing with the question referred to.

Discussed on Finance Bill

Lieut.-Commander Kenworthy, on June 21, moved the addition of a new clause to the Finance Bill giving the Commissioners of Customs and Excise power to make regulations for granting allowances for spirits used in the manufacture of perfumery. He pointed out that a rebate is allowed for spirits used in the manufacture of medicines. The loss to the Exchequer by a rebate on spirits used in the manufacture of perfumery would not be more than £12,000 a year, and this would give help to a British industry. The Chancellor of the Exchequer replied that the cost would be about £1,500,000, as the perfumery trade is so intertwined with duties on essences. The clause was negatived.

SAFEGUARDING OF INDUSTRIES ACT.

Mr. Foot asked the President of the Board of Trade, on June 19, whether he is aware that importers who have paid duties on commodities afterwards removed from the list of articles dutiable under Part I. of the Safeguarding of Industries Act have been refused payment of the duties direct, but can obtain a refund of the duties as duties paid on re-exports if they ship the articles, to, say, Rotterdam and back; and whether, in these circumstances, he will obtain powers, if necessary, to repay such duties at once without compelling traders to incur the unnecessary expense above referred to.

Sir John Baird, who replied, said that the facts are substantially as stated in the question, except that drawback is only payable if the goods exported have not been used in this country. The Chancellor of the Exchequer has several times stated that he is not prepared to pro-

mote legislation to authorise repayment of the duty paid on goods afterwards removed from the list.

NATIONAL HEALTH INSURANCE BILL

This Bill, upon which the Government suffered defeat last week, was again considered by a Committee of the House of Commons presided over by Mr. J. W. Wilson. The Bill, which is the outcome of one of the recommendations of the Geddes Committee, relates mainly to supplementary grants paid by the Exchequer for medical benefits, which are in addition to the statutory grants. It was proposed in the Bill that the cost of these special grants should be charged, as from April 1 and until December 31, 1923, to the benefit funds of the approved societies. Opposition was raised to this proposal, it being urged that as contributions to the societies were likely to decrease, while sickness claims will probably increase, the money should be taken, not out of the benefit funds, but out of the central fund. Sir A. Mond thereupon explained that the central fund is a guarantee to the societies in case of deficiency, and therefore should not be touched. Moreover, the central fund amounts to only £2,000,000, whereas the sum required for these special grants is three and a-half millions. In spite of the opposition of the Minister, the committee carried an amendment against the Government. Upon the committee reassembling on June 25, Sir A. Mond said he had reconsidered the position, and, as a result of deliberations with his experts, he was prepared to move an amendment to take from the central fund a certain amount in order to ease the money to be taken from the benefit funds of the societies. An arrangement had been made that the central fund should be mulcted to the extent of £900,000—approximately one-third of the sum required. This would leave over £1,000,000 in the fund, and it was felt that this would be sufficient in case any society fell into deficiency. An amendment carrying out the proposal of the Minister was agreed to.

BRITISH DYE STUFFS CORPORATION

The affairs of the British Dyestuffs Corporation have been the subject of numerous questions in the House of Commons, owing to the fact that the Government has a controlling interest in the company. Dr. H. Levinstein explained to a meeting of the Commercial Committee of the House of Commons on June 22 the reasons why he resigned from the board of directors of the company. He did this, he said, on public grounds. It was entirely on account of his objection to the appointment of gentlemen to the control of the business who had no technical knowledge of chemistry or of the dye industry. The British Dyestuffs Corporation had been since its formation directed and controlled by the Government, acting through the Government directors. Some people thought that by the acquisition of so-called German "secrets" we should secure a British dyestuffs industry. The strength, however, of the German position lay not in these "secrets," but in the scientific organisation which produced them, knew how to exploit them, and which would go on producing new "secrets." The only counter-move was to be as strong technically, and as efficient. There was no short cut. There were four things which should be secured from the British dyestuffs industry: (1) The economic freedom of our textile and other dye-consuming trades. (2) Security against chemical-warfare attacks. (3) The discovery and development of new industries dependent on invention in organic chemistry. (4) A counter to the peaceful penetration by Germany of the native races of India and the East secured by their monopoly of the up-country business with tons of dyestuffs. For each of these reasons they must have large factories and do a world's business, and not a business confined to Great Britain. He complained also that the chemists had been dismissed and the research information, which alone cost £165,000 in 1919 and 1920 to acquire, had been scattered to the ends of the earth. The company has failed because it has been controlled by the Government, and no industry so controlled is likely to succeed where there is competition to face. The subsequent speakers included Sir William Pearce, Sir Philip Magnus, and Mr. W. J. Uglov Woolcock.

Summer Outings

Round the Surrey Hills

THE staff of Boots, Ltd., in the Richmond area (T 19) held a successful outing on June 21, when a party numbering approximately eighty journeyed through Reigate, Dorking, Newlands Corner, and Wootton Hatch to Friday Street, where tea was served. Subsequently a visit was made to the woods and games were played.

A Trip up the River

THE Reigate, Redhill, and District Pharmacists' Association held their summer outing on June 14. Leaving Redhill about 1.30 p.m., the party proceeded in a charabanc by way of Reigate, Dorking, Leatherhead, and Esher to Hampton Court, where a steam launch was waiting to take them up the river as far as Shepperton. An excellent tea was provided on the boat. On arriving the company disembarked and spent a pleasant hour investigating the beauties of Weybridge. The outing was voted a most enjoyable one.

Bath Chemists' Excursion

THE annual outing of the Bath Pharmaceutical Association and Pharmacy Club took place on June 22. The members were taken by charabancs to Berkeley Castle, which is of historical interest (Edward II. was murdered there in 1327), and also viewed the church. The journey was continued to Gloucester, where tea was taken by the sixty-two present as guests of the President (Mr. D. J. Williams). After tea the Cathedral was visited, and the return journey made via Stroud, Amberley, and Avening. A vote of thanks was passed to the President for the enjoyable afternoon. Among those present were Messrs. H. C. Broad, R. H. Moore, Luther Wilson, Kingston, A. C. Olds, Norris, W. Hallett, Loveless, and Thompson.

Fassett & Johnson at Folkestone

ON June 17, Fassett & Johnson, Ltd., held their annual outing and dinner at Folkestone. At the Grand Hotel, where a splendid repast had been arranged, one hundred and twenty sat down to dinner. The governing director (Mr. L. O. Johnson) presided. At the close of the dinner Mr. Kennett proposed the combined toast of "The Firm" and "The Chairman," which was drunk with musical honours. Mr. Johnson responded. Mr. Hunting also replied to the toast of "The Firm," and a vote of thanks was passed to the committee for the manner in which they had carried out the arrangements. During the afternoon some of the party motored to St. Margaret's Bay, while others went rowing and for walks in the neighbourhood. London was reached about 9.30 p.m., concluding a most successful event.

Haslett's Picnic

THE staff of J. & J. Haslett, Ltd., wholesale druggists, North Street, Belfast, held their annual picnic in ideal weather on June 17, the rendezvous being Ballywalter, a picturesque village situated on the shores of the Ards Peninsula. The party, which numbered over 100, was conveyed in motor charabancs, through Newtownards, Greyabbey, and Ballywalter Park. After dinner, in the Dunleath Arms, Mr. Joseph Ervine, on behalf of the Committee, thanked the directors for the day's holiday, and Mr. Haslett replied. A short musical programme, in charge of Mr. Wesley Ervine, was gone through, the following taking part: The Misses K. and B. Murray and F. M. Cavanagh and Mr. J. B. Breakey, the Misses Talbot and Lyons acting as accompanists. Sports were held at The Warren. The company then returned to the hotel for tea, when the prizes were distributed by Mrs. Horace Haslett.

Liverpool visits Morecambe

THE employees of R. Sumner & Co., Ltd., manufacturing chemists, Liverpool, held their annual picnic, on June 24, at Morecambe. An early dinner was served at the Grafton Hotel, following which a vote of thanks, proposed by Mr. D. Hetherington and seconded by Mr. W. Blackwood, was accorded to the directors of the

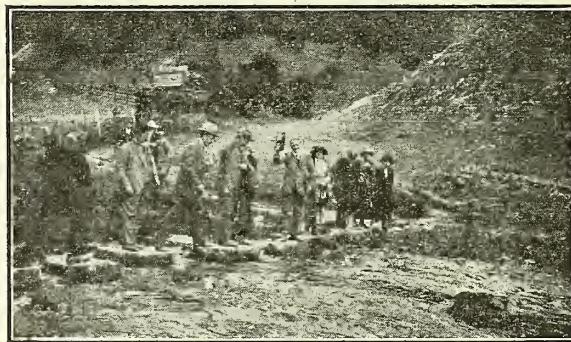
company for granting the whole day's holiday, and for their handsome donation towards the expenses of the picnic. During the afternoon the weather, though somewhat unkind, was unsuccessful in its attempt to "damp" the ardour of the party, and it was observed that the youthful spirits were not confined to those young in years. After tea at the Grafton Hotel, a vote of thanks, proposed by Mr. C. Nicholson, was accorded to the committee (Messrs. Hetherington, Blackwood, Poole, Booth, Daniel, and Kemp) for their efforts in the arrangements for the day's proceedings.

Midland Masons' Motor Tour

LADIES' day of the Alchemy Lodge (No. 3950) and R.A. Chapter was held on June 21, when about sixty brethren and forty ladies motored from New Street, Birmingham, through Hagley, Chaddesley, Ombersley, Holt Fleet, Witley, and, after a short stay at Hundred House, on to Ludlow, through the Teme valley. Lunch was taken at a hotel in the ancient borough; after the usual loyal toasts, proposed by the M.E.Z. and W.M. Worshipful Bro. Maurice Smith, the toast of "The Ladies and Visitors" was proposed by Wor. Bro. A. W. Gerrard, and responded to on behalf of the ladies by Bro. Tustain. The W.M.'s toast was proposed by Wor. Bro. F. C. H. Foster, H. and S.W. The afternoon was spent in the grounds of the Castle (where photographs were taken) and in visiting the church, while many of the party visited the pharmacies of their Ludlow friends. The return journey was made over the Cleve Hills, Cleobury Mortimer, Bewdley, and Stourport, where a halt was made for tea; Birmingham being reached about 9 p.m. That the outing was such a success is largely due to the assistant secretary, Bro. W. H. Fletcher, to whom a vote of thanks was passed.

Manchester Masons' Outing to Dovedale

THE members of the Manchester and District Pharmacists' Masonic Association and their ladies met at London Road Station, Manchester, on June 21, and travelled by saloon to Thorpe Cloud, for Dovedale, picking up several brethren and ladies at Stockport. From Thorpe Cloud the party walked to the Isaak Walton Hotel, where tea was taken. The Dale was then explored and the beautiful scenery seen at its best. A diversion was caused by some impromptu sports. Bro. Sir Wm. Veno acted as starter, and afterwards challenged Wor. Bro. Thompson to a donkey race. (These animals are for carrying visitors, at a regulation speed of



AT THE STEPPING-STONES.

about two miles an hour, over the rough and hilly paths.) A return was made to the "Isaak Walton" for dinner, after which the party rejoined the train and arrived at Manchester about 10.45 p.m., tired, but happy, at the end of what was described as "a perfect day." The description of Dovedale in the *C. & D.* of June 17 was read with great interest by the party, and the promoters of the British Pharmaceutical Conference excursion are to be commended on their choice of the district. Bro. D. Dickson was chairman; Wor. Bro. H. Thompson, vice-chairman; Wor. Bro. A. H. Lyons, director of ceremonies; Bro. H. Woodhead acted as photographer, and Bro. A. Newton, the secretary, as "guide."

North London Chemists' Drive

THE annual outing of the London (North) Pharmaceutical Association, the tenth of the series, was held on June 22. One section started by charabanc in the morning through Epping Forest to Chigwell, where a visit was paid to the "Maypole," of Barnaby Rudge fame, and the opportunity was taken of inspecting the Dickens relics. From there the journey was continued to Ongar, where lunch was served. The journey was continued to Dunmow, and the village and surroundings



NORTH LONDON PHARMACISTS

explored; then on to Bishop's Stortford, where market-day was in full swing. The afternoon excursionists travelled via Chingford and Waltham Abbey, which was visited, and thence direct to meet the other party for tea at the Chequers, Bishop's Stortford. An early return was made via Hadham to Broxbourne, and the photograph was taken at the Crown Hotel. The gardens proved attractive and, as there was a band, the evening was filled with dancing on the lawn. Leaving about 8.45 p.m., the run home was made via Enfield, after having spent a delightful day.

Federation Outing

THE Federation of South-Eastern Counties Pharmacists' Associations held its first outing, to Tunbridge Wells, on June 10. The company, of whom a fair proportion were ladies, numbered about forty, including: Mr. H. C. Browne (President of the Federation and the Eastbourne Association), Mr. Edgar Jones (President of the Brighton Association), Mr. Filmer de Morgan (President of the East Sussex Association), Mr. F. W. Burgess (secretary of the Brighton Association), Mr. Mackie and Dr. Clutterbuck (Brighton Technical College). The Brighton and Eastbourne Associations motored through some of the most beautiful parts of Sussex, and in spite of the chilly weather all were delighted with the journey. They were received by Messrs. Bishop and Smith. An excellent tea was provided in the Spa Hotel. Mr. H. C.



SOUTH-EASTERN FEDERATION

Browne (President), who spoke of the apathy of chemists generally, thought it was regrettable they did not support their Associations better, instancing the Pharmaceutical

Council and Retail Pharmacists' Union elections. The main object in visiting Tunbridge Wells was to urge the chemists to restart their Association. He also emphasised the importance of marking prescriptions and honouring the mark. Mr. Edgar Jones emphasised the fact that the Federation existed to promote the welfare and efficiency of the pharmacist and pharmacy. He expressed his appreciation of the presence of Dr. and Mrs. Clutterbuck. Mr. F. W. Bishop said it gave them at Tunbridge Wells great pleasure to welcome the gathering there, and Councilor Yates, in a racy speech, invited the ladies to the Brighton carnival. After tea the party assembled in the grounds, and Mr. G. Bernard Savage photographed the party.

Insurance Act Dispensing

A Record of matters concerning Chemists' interests in the National Health Insurance Acts

Reports from Local Centres

ENGLAND

London.—At a meeting of the Insurance Committee, on June 22, Mr. H. A. Thomas (vice-chairman) presiding, the Finance Sub-Committee recommended for payment to chemists accounts amounting to £18,857 8s. for the current year. The total amount ordered to be paid was £77,575 5s. 7d. A letter was received from the Pharmaceutical Society of Great Britain referring to alleged irregularities on the part of a firm of chemists on the panel. The Pharmaceutical Service Sub-Committee was instructed to investigate the matter.

June Drug Tariff

The following are the alterations for June in the Insurance Drug Tariff for England and Wales:—

Lower.—Acid, tannic, 6s. 8d. lb.; caffeine, 2s. 2d. oz.; chloroform B.P., 4s. 7d. lb.; dec. cinchon. rub., ex. cone., 5s. lb.; ext. case. sagr. liq., 2s. 10d. lb.; ext. filic. liq., 1s. 3d. oz.; ext. glycyrrh. liq., 4s. 2d. lb.; ext. nucis. vom. sicc., 1s. 2d. oz.; ferri et ammon. cit., 3s. 8d. lb.; glycerinum, 1s. 7d. lb.; glycer. acid. boric, 2s. 6d. lb.; glycer. acid. carbol., 2s. 2d. lb.; glycer. acid. tannic, 3s. 6d. lb.; glycer. belladon. B.P.C., 5s. 9d. lb.; glycer. boracis, 2s. 2d. lb.; glycer. pepsin, 5s. lb.; glycer. plumbi subacet., 2s. 6d. lb.; glycer. thymol. co. B.P.C., 1s. 2d. lb.; guaiacol carbonas, 1s. 4d. oz. lin. camph., 2s. 10d. lb.; lin. sap. meth., 1s. 9d. lb.; liq. formaldehyd., 1s. 3d. lb.; lithii cit., 1s. 4d. oz.; menthol, 3s. 1d. oz.; ol. croton, 11d. oz. pepsin, 2s. 6d. oz.; pot. cit., 3s. 8d. lb.; pot. tart. acid., 1s. 8d. lb.; sacc. lact. pulv., 1s. 9d. lb.; sodii citras, 3s. 6d. lb.; sodii salicylas (cryst.), 4s. 6d. lb.; spt. aether. nitrosi, 5s. 2d. lb.; syr. ferri phosph. co. B.P.C., 1s. 3d. lb.; syr. ferri phosph. c. quin. ct strych., 2s. 4d. lb.; syr. glycerophosph. co. B.P.C., 2s. 7d. lb.; syr. hypophosph. co. B.P.C., 1s. 9d. lb.; syr. scillae, 1s. 3d. lb.; syr. tolat., 1s. 4d. lb.; tr. benzoini co., 5s. 10d. lb.; tr. cardam. co., 3s. 1d. lb.; tr. chlorof. et morph. '85, 3s. 9d. lb.; tr. gent. co., 3s. 7d. lb.; tr. rhei co., 3s. 6d. lb.; tragacanth. pulv., 21s. lb.; troch. pot. chlor. gr. 3, 2s. 8d. lb.; ung. acid. boric B.P., 1s. 7d. lb.; ung. hyd. ammon., 2s. 6d. lb.; ung. plumbi subacet., 2s. 4d. lb.; ung. sulphuris, 1s. 7d. lb.; ung. zinci, 1s. 7d. lb. **Gauzes:** Unmedicated, 1 yd., 2.8d., 6 yds. 13.5d.; boric, 1 yd. 3.1d., 6 yds. 15.5d.; carbolic, 1 yd. 3.1d., 6 yds. 15.5d.; cyanide, 1 yd. 3.2d., 6 yds. 16.0d.; sal-alambroth, 1 yd. 3.0d., 6 yds. 15.0d.; sublimate, 1 yd. 3.1d., 6 yds., 15.5d.; iodoform, 1 yd. 4.8d., 6 yds. 25.5d.; picric acid, 1 yd. 4.0d., 6 yds. 21.0d. **Lints:** Unmedicated, 4 oz. 9.0d., 8 oz. 17.0d., 1 lb. 31.0d.; boric, 1 oz. 1.8d., 2 oz. 3.3d., 4 oz. 6.3d., 8 oz. 12.5d., 1 lb. 21.5d. **Ice bags, check, circular, 24.0d. each. Containers: Medicine bottles, up to and including 4 oz., 2d.; over 4 and up to 8 oz., 2d.; over 8 and up to 10 oz., 2½d.; over 10 and up to 12 oz., 2½d.; over 12 and up to 16 oz., 3d.; over 16 and up to 20 oz., 4d.; over 20 and up to 40 oz., 6d. **Poison bottles, up to and including 4 oz., 2d.; over 4 and up to 8 oz., 2½d.; over 8 and up to 10 oz., 3d.; over 10 and up to 12 oz., 3½d.; over 12 and up to 16 oz., 4d.; over 16 and up to 20 oz., 4½d.; over 20 and up to 40 oz., 7½d.****

Higher.—Acid. citric. pulv., 3s. 5d. lb.; anthem. flor. exot., 5s. 6d. lb.; cocain. hydrochlor., 4s. 8d. dr.; ext. opii sicc., 4s. 2d. oz.; liq. opii. sed. B.P.C., 6s. 2d. lb.; ol. lini B.P., 7s. 4d. gal.; opium pulv., 1s. 11d. oz.; phenolphthalein, 7d. oz.; terebentum, 4s. lb.

Pharmaceutical Society Of Great Britain

North British Branch

Executive Meeting

A meeting of the Executive of the North British Branch was held at 36 York Place, Edinburgh, on June 21, Mr. George Shiach Kitchin in the chair. There were present Messrs. Arthur, A. Currie, Dick, Fisher, Glass, Guthrie, Jack, Kitchin, D. G. McKenzie, McLaren, McMillan, McNab, McVittae, Milne, and Murray.

The Chairman said the Executive would already have seen the references, which had appeared in the pharmaceutical Press, to their late colleague, Mr. W. L. Currie. His colleagues round that table knew full well the great amount of work done by Mr. Currie for pharmacy in Scotland and also in England. The Chairman proposed a resolution placing on record the services rendered by Mr. Currie, and expressing sympathy with his family.

Mr. Guthrie said it was difficult for any colleague of the late Mr. Currie to refer to him without a feeling of deep emotion. Mr. Currie had been long associated with those taking a foremost place in pharmaceutical affairs, and he was a type of man who greatly endeared himself to all with whom he came in contact, whether they saw things from his particular point of view or not.

The resolution was unanimously agreed to.

There was received a letter sent on behalf of Mrs. W. L. Currie and daughters, thanking the members of Executive for the wreath sent. It was also reported that Mrs. Currie had handed over for the library of the North British Branch a set of *THE CHEMIST AND DRUGGIST*, which belonged to the late Mr. W. L. Currie, and it was agreed to convey cordial thanks to Mrs. Currie for this useful gift.

DISPENSING FOR PENSIONS CLINICS

Correspondence was submitted from the Ministry of Pensions, Scottish Region, Edinburgh, and the Ministry of Pensions, Medical Service Division, London, dealing with the supply of proprietary medicines, dressings, or artificial appliances. The correspondence indicated that the Ministry of Pensions had decided to surcharge the medical officers concerned with the cost of any proprietary articles, dressings, or artificial appliances ordered by them on and after June 1. This rectified the intimation in the first letter received. The correspondence further directed attention to the publication of instructions for Ministry of Pensions Clinic dispensing.

Annual Meeting

THE annual general meeting of members of the Pharmaceutical Society resident in Scotland was held at 36 York Place, Edinburgh, on June 21, Mr. George Shiach Kitchin in the chair.

The Chairman's statement included the following passages:

Following the incidents which culminated in the test case as to the powers and functions of the Society, the question of local organisation in Scotland has been placed in a somewhat new and not quite clearly defined position. The need for unity of policy and loyal co-operation on the part of pharmacists in all matters affecting the craft is very evident to every person who takes an interest in these matters. How this is to be done is for the moment not quite so clear.

LOCAL ORGANISATION

The Council of the Society has definitely formulated a scheme for local organisation of the Society, and that scheme must have the most careful consideration of the Executive as the body acting under the Council in the practical working of local organisation in Scotland. To make the scheme successful it may be necessary to have it adapted to the special conditions in Scotland. There is also the important question of local organisation in relation to matters considered appropriate to a body like the Scottish Pharmaceutical Federation. The joint sub-committee appointed by the Executive and the Federation has just completed a report which is at present before the respective Executives, and it is hoped a definite agreement may be reached soon. It

has to be remembered, of course, that in Scotland no elaborate organisation for trade purposes like the Local Association's Executive in England and Wales has ever been established. The whole matter was only being considered when the questions arose. Consequently, the test case does not upset the machinery of the Society in Scotland to the same extent as in England and Wales. But the work of the Society in Scotland must be kept strictly in line with the work of the Society in England and Wales.

DANGEROUS DRUGS ACT

It was a matter of gratification to the Executive that they were enabled to assist the Council in the endeavour to secure amendments on the Regulations issued by the Home Secretary, pursuant to the Dangerous Drugs Act, 1920. The result has been that these Regulations are much less burdensome than they would otherwise have been. It was a matter of extreme regret to the Executive that the Council did not succeed in securing an agreed case with the Home Office to test the point as to whether the Regulations were *ultra vires* in demanding a prescription in every case of supply of any dangerous drug by a qualified pharmacist in the ordinary course of retail business.

METHYLATED SPIRIT

The question of restrictions on the sale of methylated spirit and the objections to certain harassing regulations proposed by the Convention of Royal Burghs have occupied a good deal of attention, and meantime there is no appearance of any such regulations being proceeded with.

DEATHS

Since last annual meeting we have lost three well-known Scottish pharmacists who were identified with the work of the Society. First of these was Mr. William Giles, J.P., Aberdeen, who so recently filled the chair of the Executive. Then came Mr. Alexander Noble, Edinburgh, who, both as an examiner and member of Executive did good service, and only a few days ago the best known of them all, Mr. William Little Currie, of Glasgow.

ELECTION OF EXECUTIVE

The scrutineers' report stated that 1,323 voting-papers were issued, containing the names of the twenty-four candidates who had been nominated and expressed their willingness to serve. The number of effective papers returned was 400. The following is the result of the poll:

J. Jack (Arbroath)	339
G. S. Kitchin (Glasgow)	317
J. J. Forbes (Perth)	303
W. G. McNab (Gorebridge)	300
T. Mackenzie (Inverness)	299
J. B. McVittae (Glasgow)	294
C. Simpson (Aberdeen)	290
J. H. Fisher (Dunfermline)	256
W. S. Glass (Edinburgh)	266
A. McMillan (Glasgow)	263
J. B. McLaren (Kirkcaldy)	259
A. Currie (Leith)	258
A. Murray (Glasgow)	257
H. P. Arthur (Glasgow)	252
A. A. Dick (Bellshill)	236
J. R. Milne (Dundee)	234
A. McEwan (Glasgow)	233
D. G. Mackenzie (Glasgow)	221
R. Speedie (Crieff)	197
R. Marshall (Grangemouth)	196
J. Noble (Leith)	194
L. P. Michie (Dundee)	185
J. C. Henderson (Edinburgh)	143
J. O. Chisholm (Glasgow)	140

The chairman declared that the first eighteen were duly elected, and, together with the President of the Society (Mr. E. T. Neathercoat), the Vice-President (Mr. F. Pilkington Sargeant), and Mr. Thomas Guthrie (Clydebank), as *ex-officio* members, constitute the Executive for the year 1922-23.

Mr. James Jack, in moving a vote of thanks to the chairman (which was cordially carried), said they desired to express their high appreciation of the work he had done in connection with the Executive and the Pharmaceutical Society.

Mr. Kitchin, in reply, said that the work he had done for pharmacy was exceedingly pleasurable, and he had been happy in having the cordial support of the whole of the craft in Scotland.

The Chemists' Exhibition

THE twenty-third Chemists' Exhibition, organised by "The British and Colonial Pharmacist," was held in the Central Hall, Westminster, London, S.W., from June 19 to June 23 inclusive. It was again comfortably housed on two floors of the well-situated building, and the exhibits as a whole were up to the average standard. In the following classified paragraphs we summarise our impressions of the stands:

Drugs, Chemicals and Pharmaceutical Preparations

ALLEN & HANBURYS, LTD., occupied an island stand rendered additionally attractive by some original pictures, one of which, we understand, is to be reproduced in colour by the company. A prominent feature of the display was the Allenburys diabetic flour, some biscuits made from which are quite palatable. A leaflet giving several recipes for diabetic foods is available. "Uncleared" cod-liver oil was also in evidence: this variety is in growing demand on account of its high vitamin content. A half-size feeding-bottle was another novelty, or quasi-novelty; and yet another was "Annuloid" tablets—which, as their name suggests, are ring-shaped—made to a compound menthol formula. Among the popular "Torch" brand series our attention was called to a shaving-cream which is elegant in appearance and simple in use. It may be added that the "own name" system is cultivated by Messrs. Allen & Hanburys in a large range of pharmaceutical products.

JOHN BELL & CROYDEN, LTD. (incorporating ARNOLD & SONS), had a large stand designed in oak, after the style of the fittings in their well-known Wigmore Street establishment. The growing importance of the baby department was evidenced in the prominence given to baby toilet-outfits, baby soap, and "Hygeia" feeders. "Perivale" toilet-preparations have progressed since we last saw an exhibition of them, and in elegance of finish leave nothing to be desired. On the surgical side, the display was strong in such things as Ramul (for x-ray diagnosis), ampoules, sterile dressings, accouchement sets, and lysol. Some smart bathing-caps were displayed to advantage by means of model figures.

JOHN BELL, HILLS & LUCAS, LTD., are specialising in packed goods, and their exhibit contained a large range of articles the labels of which reflect high-class pharmacy. The company will reserve special series of labels exclusively to one chemist in a district.

A neat display filled the stand of MR. ROBERT BLACKIE, who specialises in packed goods and spun ointments. The ointments are put in tins with a variety of design on the lid, so that a chemist can be sure of getting a label exclusive in his district. The Nuxocol coconut-oil shampoo (liquid or powder) is a smart line at a reasonable price.

BRITISH COLLOIDS, LTD., confined their exhibit principally to such of their products as are in commercial demand—e.g., Collosol, Argentum, Ferromalt, soap and dentifrice, and zinc cream.

W. J. BUSH & Co., LTD., devoted the greater portion of their stand to perfumery, and the remainder to fine chemicals and concentrated flower oils. The perfumes, which included Devon violets and lilies (packed in wickered globe-shaped bottles), Potter & Moore's lavender water, and eau de Cologne, were displayed to great advantage. Oriental Poppy Hair Food is one of the latest of the company's productions. The selection of fine chemicals manufactured by the company formed a striking exhibit, the excellence of the salicylic acid and salicylates, vanillin, terpineol, and heliotropine indicating that Messrs. Bush fully understand the meaning of "fine" as applied to chemicals.

CRICKMAY, MATHIAS & PEPPER, LTD., are the sole proprietors of the S.S.S. brand of packed goods, most of which were shown. Mr. Stephen Shirley, Ph.C., is in charge of the company's laboratory.

J. C. ENO, LTD., had thought out a new and highly individual scheme of decoration for their stand, with the grateful and cooling addition of draughts of Fruit Salt in filtered water. Messrs. Eno must be one of the

largest and most regular advertisers in the country, and, as chemists know, their goods are on the P.A.T.A. list. The company are justly proud of the fact that a large order came to them in the ordinary way of business from H.M.S. "Renown," the ship that has just taken the Prince of Wales round the world.

GENATOSAN, LTD., were distributing dainty samples of Genasprin and other products of their manufacture, and it was obvious that their representatives were answering many inquiries. New advertising matter is being issued by the company.

C. R. HARKER STAGG & MORGAN, LTD., had arranged outside their stand a suggested window-show of Peldo. While the amount of business in this article is ever growing, the company has not lost sight of their being a wholesale drug house, as samples of such lines as senna pods, zinc ointment, and granulated extract of cascara showed. The latest advance is the packing for resale (in 1, 2, and 4 oz.), with the chemist's own name, of Epsom salts, boric acid, and other chemicals and drugs in constant demand.

The black-and-gold stand of HOWARDS & SONS, LTD., struck, as usual, a note of distinction, with pharmacy pots and fine specimens of drugs and chemicals. We noticed that borax has been added to the list of counter packages, and has been allotted a distinctive label. Lemolac, Messrs. Howards' extra-light calomel, is by this time a standard product in the trade; and it is worth mentioning, in this connection, that 1 lb. of their bismuth carbonate fills a 50-oz. wide-mouthed bottle. The advantages of these light powders at the dispensing counter are obvious. Aspirin tablets, ammoniated quinine tablets, and Howards' standard ether were also in evidence. Pharmacists are invited to write to Messrs. Howards for particulars of their bonus terms for aspirin tablets.

H. & T. KIRBY & Co., LTD., called our attention to the large range of labels available for the chemists to choose from. The advance made in the manufacture of glycerin suppositories was well illustrated at their exhibit, which was, for the most part, devoted to tablets, pills and jujubes.

In the course of a conversation with one of the directors of W. T. OWBRIDGE, LTD., we were informed that, in spite of unemployment and other disturbances, last year's business was highly satisfactory; and trade is expected to be equally so during the coming season. The exhibit comprised the well-known Owbridge specialities.

PARKE, DAVIS & Co. had an exhibit combining the useful with the decorative in a quite individual way. Prominently placed on the stand were two new skin-preparations, Dermalac (an elegant emulsion) and cold-cream made by an old-fashioned method so as to be typical of real cold-cream. Thence the visitor passed by an easy gradation to Salevac (a granulated saline), Fecto (the firm's hypochlorite solution), standardised fluid extracts, and Metagen (the three-vitamin food). A specimen of pituitary gland brought up the difficult question of future supplies of this organ, the demand for which is becoming excessive.

PHYSIKURATE, LTD., were showing their specific for rheumatism and other complaints of a similar nature. The product is in the form of pink granules, packed in saline bottles with an artistic label, and the bottles make a pleasing display.

SALTRATES, LTD., made an effective display of Alkia Saltrates, Nemolin, and other proprietaries. It is pointed out that attractive showcards are sent free on request, and that special terms are available on assorted orders.

SCOTT & TURNER, LTD., filled a prominent corner-stand with a striking display of Andrews' Liver Salt, two illuminated revolving dummy tins of giant dimensions being very effective. We learn that Messrs. Scott & Turner's window-display competition has been taken up widely and eagerly.

SUTCLIFFE & BINGHAM, LTD., had a corner-stand with a green and white background setting off their Khovah health salt to advantage. The packing of the saline is quite distinctive, constituting a strong selling-point.

THE UNITED LABORATORIES & CHEMICAL Co., LTD., had a stand devoted to Sprazone, their perfumed germicide,

and Maxwell's massage cream, which is extensively used in neuritis and similarly painful affections. A gilt embossed tin sent out by the company contains a spray and a supply of Sprazone, and is known as the "Ideal Reform Outfit."

A conspicuous exhibit was that of A. WANDER, LTD., who had a well-arranged selection of their products, including Ovaltine, Cristolax, extract of malt, and Coryzine and a recently introduced non-greasy midge cream. The silver-coated Marienbad tablets are an excellent example of how such tablets should be turned out.

WRIGHT, LAYMAN & UMNEY, LTD., had a representative display of the varied products that they put forth. A worthy pendant to their universally known coal-tar soap is Wright's Coal-tar Ointment, a distinctively packed preparation in tins and jars. Wright's lysol, with its popular cap-measure and stipendium cork, is, we learn, forging ahead; and the company's packed pharmaceuticals are also found very convenient at the counter. Essential oils and synthetic perfumes were among features of a show of more than average interest.

Other houses showing in this section were: ANGLO-AMERICAN OIL Co., LTD. (Nujol); THE BRITISH DIAMANT Co.; JEYES' SANITARY COMPOUNDS Co., LTD.; LYSOL, LTD.; THE CHARLES H. PHILLIPS CHEMICAL Co. (Milk of Magnesia); SANAGEN Co., LTD.

Toilet Preparations and Requisites

AMAMI, LTD., had a tasteful display of their high-class toilet-preparations. A list of retail sales averaging a profit of £6 a week was given in the catalogue, and chemists are invited to apply for further particulars. Amami preparations have been linked with a cinema film in a clever way, and a voucher scheme is now in operation.

WALTER BOOTH, who manufactures nothing else but shaving-brushes, carries out the process from start to finish, including the metal ferules. His display probably comprised the greatest variety of this class of goods at the Exhibition. The evolution of the brush was depicted, and several samples of foreign manufacture showing methods of deception were illustrated.

A stand which could not fail to arrest the attention of the passer-by was that of T. F. BRISTOW & Co., LTD., who had backed up the designer's efforts by an attractive display of perfumes in cut-glass bottles and soaps. With regard to the latter, special mention should be made of the Georgian and Devon Cream varieties. Both soaps are nicely perfumed. It is evident from the comprehensive range of goods exhibited that the company have studied the requirements of all types of pharmacies.

H. BRONNLEY & Co., LTD., whose stand was in charge of the sales manager, Mr. H. P. Mason, have just brought out a new line of toilet requisites under the name of "Soana." These are well got up, and in keeping with the company's reputation for such preparations. An attractive series of soaps is that packed with a mother-of-pearl wrapper. It is put up in the French style, three tablets in a box, and is obtainable in six varieties.

Chemists interested in genuine Eastern perfumes should communicate with BROOKS, WEIR & Co., who were showing goods which are imported from India, though packed in this country. The style has a general resemblance to that of French perfumery. A novelty is the non-spilling bottle without a stopper.

Always expanding, W. H. CALNAN & Co., LTD., have added to their lines a range of "Keystone" hair, nail and clothes brushes of excellent quality at various prices. Some of the brushes have backs of maple or other selected wood, and are distinctly handsome. Whisk brushes for clothes are also stocked. "Solyptol" soap, an Australian medicated soap bearing a better profit than many similar lines, was on view, together with Simms shaving-brushes, and, of course, the unique "Rosine" perfumery.

F. S. CLEAVER & SONS, LTD., had a stand artistically panelled in a style worthy of their high reputation. An original tablet of the soap made for the Exhibition at the Crystal Palace in 1851 occupied a place of honour, and among the most modern products was Talcum

Cleaver, manufactured, we learn, by a new sterilisation process. This powder is being extensively advertised.

CRESSWELL BROTHERS (Branch, International Sponge Importers, Ltd.) were showing a full range of honey-comb, Turkey and other sponges, including their Ablutonic rubber sponge.

THE CROWN PERFUMERY Co., LTD., had a striking display, in which brown lavender salts occupied a prominent place. The company celebrate their jubilee this year.

Cut-glass articles usually excite admiration, but toilet-requisites of that material are rarely seen in such "mass formation" as was possible at the stand of THE CRYSTAL CUT GLASS Co. There was a range of over 200 varieties of puff-bowls of all dimensions, some plain and others stained or painted. Scent-sprays, trinket-sets, and powder-puffs added to the attractiveness of the exhibit.

T. W. CULMER & SONS were making a neat display of "Culmak" shaving-brushes, which, it is hardly necessary to add, are entirely British and guaranteed free from anthrax. The latest annual report of the City of London medical officer of health (*C. & D.*, June 24, p. 135) suggests in convincing fashion the risk of using shaving-brushes of unknown origin.

One of the most artistic stands was that of DE LUZY, which conveyed the idea of high-class perfumery at a glance. Mr. W. H. Calnan, the London general manager, was in charge, and pointed out that the firm is advertising very extensively. Messrs. De Luzy supply their customer with ample show-material; their goods are sent out with perfection of finish; and their discounts and display-bonuses are liberal.

THE DE VILBISS Co., LTD., occupied a large bay backed by a long wall-case filled with sprays. Since we last saw an exhibit of this enterprising company it has added a considerable variety of perfume sprays in dainty designs, and with the reduced prices now prevailing (both for these and for medicinal sprays) such attractive goods ought to sell readily. A combined night-light and perfume volatiliser was another novelty on view.

DUBARRY ET CIE. were so up-to-date that they were showing soaps with new packings that had only arrived on the morning of our representatives' visit. Their stand was characterised, as always, by many original and attractive lines, each distinctive in appearance. The company supply handsome showcards and such window-dressing materials as dummy bath salts to their customers.

THE ERASMIC Co., LTD., were showing a new series of toilet-preparations packed in containers of an old Chinese design. These appear to lend themselves admirably to display purposes, judging by the showcases seen.

EUCRYL, LTD., have recently added to the number of their preparations on the market, and a full range of these, together with the already well-known products, was exhibited. The newer lines include a face-cream, vanishing-cream and solid brilliantine packed in tubes and enclosed in cartons of a distinctive design, and a face-powder retailing at a moderate price. Eucryl denture-powder, we are told, is becoming very popular with dentists, as it is not abrasive enough to destroy the enamel on artificial teeth.

The exhibit of FASSETT & JOHNSON, LTD., contained, among other things, a selection of the goods for which they are agents. Some striking show-material for assisting the sales of multisified coconut oil shampoo was on view. The "Auto-aid" ambulance equipment is a metal attaché case (12½ in. x 7¼ in. x 3½ in.) weighing 4½ lb. when complete, and containing everything in the way of dressings likely to be required in an emergency.

P. H. GALLOWAY, LTD., are so generally associated with a popular cough-syrup that it is not always realised that they cater for several other parts of the pharmacist's turnover. For example, they were showing at their stand three new series of toilet-preparations, each of which is exclusive to chemists. Each series comprises a complete range. A smart line that attracted a good deal of attention is a series of perfume sprays fitted with metal bulb of acorn shape, containing no rubber. These are not only very durable, but can be made secure for travelling by the simple process of exchanging a screw cap for the top of the spray. Galloway's Cough Syrup, by the way, yields a profit of more than 50 per cent. on cost on the best terms.

D. & W. GIBBS, LTD., were making a brave display of their cold-cream soap, shaving-soap and other popular lines. A feature of the exhibit was a selection of special

displays; and attention was specially drawn to one arranged in commemoration of Messrs. Gibbs's 210th anniversary.

The soaps of JOHN KNIGHT, LTD., are distinctive, and the exhibit made of them had its own features of interest. Knight's Castile soap, we were reminded, is being well advertised, and dainty presentation tablets of it in smart metal cases are being offered to the trade with orders of reasonable size.

THE LUCKSTONE CO., LTD., had an attractive display of the high-class toilet-preparations invented and used by Miss Gordon-Stables, the well-known beauty specialist. Demonstrations of the "Luckstone" and "Ottolene" series are given from time to time in large establishments, and by this means, among others, an extensive connection in these well-planned aids to beauty has been built up. The prices are quite reasonable.

MANN, LITTLE & CO., LTD., had a well-arranged show of toilet-preparations, among which was a novelty, "Ma Chérie" soap leaves, that is likely to prove popular. Tablets of bath-soap wrapped in gelatin are another useful line.

FRANCIS NEWBERRY & SONS, LTD., had one of the largest and most comprehensive displays in the building, ranging from a specimen jar of Mitcham oil of lavender (at a price) to small and handy lines in such things as nail-files. Mr. H. A. Riles, who was in charge, called attention to a very fine range of hair-brushes, and pointed out that advertising matter for Cuticura preparations (shown at a separate stand) is available in good variety. We learn that Newberry's Embrocation—a P.A.T.A. line—continues to find fresh customers.

The stand of A. & F. PEARS, LTD., was distinctive. The centre was devoted to the "golden" series of preparations, while at one end of the display was a fountain spraying lavender water, in which ladies were invited to perfume their handkerchiefs, and at the other the varieties of transparent soap were shown, including a tablet made by the original Mr. Pears. In contrast to this was a tablet weighing $1\frac{1}{2}$ hundredweight.

PRICE'S PATENT CANDLE CO., LTD., had a wide range of their soaps on show. Old English lavender squares (tinted) and a similar tablet known as White Lavender are noteworthy. The latter brand is reserved for chemists. These soaps were, we understand, put on the market to meet the demand for a good lavender soap at a medium price, and judged by the perfume the object should be attained.

The reputation of J. M. SMITH & Co., for carbolic preparations, whether as dentifrice, dusting powder or disinfectants, is well-known, so that it was not surprising that the bulk of their exhibit related to this class of goods. Tins of benzene and sanitary fluid in enamelled tins with screw caps occupied prominent places, as did a neatly packed anti-pyrrhoea dental cream. The firm will pack the more popular of their preparations under the chemists' own name if desired.

C. A. STOKES & CO., LTD., were making the bold claim that pre-war prices, style and quality had once more arrived. So far as one could judge, they were entirely justified; and the labelling and general finish of their toilet-articles were excellent.

MR. PERCY W. TRICK had a large and attractive assortment of puff-bowls, trays and other toilet-ware made of Paralite, a black and durable material with a dull ebony finish. From cheap lines the prices rise until silver-mounted and hand-lacquered goods are reached. Some of the puffs shown at the stand were very elaborate; and, on the other hand, Mr. Trick offers such things as tooth-brushes at keenly competitive prices.

THE VINOLIA CO., LTD., had a capital display of perfumes in cases and in specimen jars, backed by other Vinolia lines. Prize competitions are being conducted by the company, and should result in increasing sales.

M. V. VIVAUDOU was showing a representative selection of his "Mavis" and other high-class toilet-preparations. Not only is the quality of these goods of the finest, but the designs are among the most original that we have seen. We examined "Mavis" tale with some care, and were struck by its extreme fineness as much as by its distinctive "bouquet." Window-shows of these perfumes, soaps and other toilet-requisites have already appeared in several important centres, and it will not surprise us if more is heard of these brilliantly-designed products in the near

future. Mr. F. A. Bell, M. Vivaudou's London manager, called our attention to the fact that the perfumes and other products of Arly and of Delettrez are also stocked in this country, and yield an excellent profit.

Among the other exhibitors in this section were: BLACKALLER & PLEASANCE ("genuine" eau de Cologne); MARCEL FRANCK, represented by the sole agent, Mr. T. G. Heighington (sprays); KOLYNOS INC.; SANGERS; SORBO RUBBER SPONGE PRODUCTS, LTD.; TOKALON, LTD.; R. WAKELY (tooth-brushes).

Miscellaneous

BROWN & SON concentrated their efforts on an automatic still and a patent self-sealing steriliser and autoclave, the latter of which does away with all the bolting round the periphery.

The stand of THE CELLOPHANE CO. was worth a visit for the sake of learning some of the striking effects that may be got with this artificial-silk wrapping. A pamphlet issued by the company contains several useful hints in this connection.

The stand of H. F. CORBETT & Co. comprised many examples of their good taste in glass cases and window-adjuncts. The "see-all" (the name of which explains itself) is capable of adaptation to all kinds of space, and their stands, with shelves shaped like a watch-glass, are distinctly smart. The "system" bureau is a serviceable piece of furniture at a reasonable price, and the glass pedestals for supporting shelves are, Messrs. Corbett believe, destined to play an important part in window-dressing.

THE JOHN DALE MANUFACTURING CO. specialise in colour-printing on collapsible tubes and tinplate. Decorated tubes can be supplied printed in one, two, three or four colours on enamel, and the examples of work shown at the stand were all that could be desired. Sprinklers and screw caps were also exhibited.

DISPLAY, LTD., had a businesslike selection of show cards and posters on view, together with specimens of "Display," the official organ of the British Association of Display Men.

Some of the results obtainable with Drummer Dyes and Moval were shown at the stand of W. EDGE & SONS, LTD.

J. G. INGRAM & SONS, LTD., had on view a well-assorted range of air-cushions, hot-water bottles, Agrippa and other teats, and many other rubber articles, distinguished as of old by perfect finish. A novelty that may be worth attention as a side-line is a tennis "grip" for use on the handle of a racquet.

MORLEY SHOWCARD SERVICE had a selection of cleverly-designed advertising material, with the strong recommendation that their settings have contributed towards winning a £250 window-dressing prize and several others of considerable value.

JOSEPH NATHAN & Co., LTD., proprietors of Glaxo, have introduced Glaxo malted food with the idea that it is to succeed Glaxo when the infant is six months old and so give the digestive organs a little more exercise. The remainder of the exhibit was given over to accessories such as feeding bottles (in three sizes), teats and valves. The company desire to push the sales of the Glaxo baby book through chemists in future.

OPPENHEIMER, SON & Co., LTD., had on show a self-heating bottle, to be used as a substitute for a hot-water bottle. It consists of two parts, an outer rubber cover resembling the ordinary hot-water bottle, and an inner bag containing a substance which, when a tablespoonful of cold water is poured on, generates considerable heat. The latest triumph of the company is pills containing a gas. We were shown what looked to be 5-grain pills which actually enclosed oxygen in a gaseous form. When crushed there is a small explosion. Messrs. Oppenheimer's organo-therapeutic preparations are made in palatinoid form. In this way the dried product is not compressed, but enclosed in a hermetically sealed soluble jujube envelope. This eliminates any possible contamination or oxidation. The automatic oxygen generator is of interest to chemists who have difficulty over cylinders. The gas, which is obtained by adding sodox (compressed sodium peroxide) to water in the generator, after passing through a wash bottle fills a storage bag made of linen-covered rubber, fitted with connecting tubes and a glass mouth-piece.

THE RETAIL PHARMACISTS' UNION AND THE CHEMISTS' DEFENCE ASSOCIATION, LTD., were strongly represented, Mr. G. A. Mallinson being supported by Mr. William Johnston, who was present in what we may call an *emeritus* capacity. Their visitors were evidently numerous.

THE SCHOLL MANUFACTURING CO., LTD., state that their products are gaining popularity with the chemist, who, now that he realises that the various "supports" are medical appliances, is no longer disposed to stand aloof while other traders sell. The exhibit embraced the whole range of the company's preparations.

STOREY, EVANS & CO., LTD., had a comprehensive set of albums and other specimen material comprising the canon of the advertiser's art. Complete window-displays are worked out to order.

THOMPSON & CAPPER, LTD., had an exhibit of interest to the manufacturer. Two rotary machines (B. and D.), capable of turning out 350 and 500 tablets a minute respectively, were to be seen working. Another machine was for packing powders. The powder is put in the hopper, and on turning a handle it is weighed, wrapped, sealed and the name and address printed on the paper. Punches and dies for making variously-shaped tablets were shown, and we also examined a tube- and jar-filling machine. The main features of it are that the tube is filled without air bubbles, and its construction renders the cleaning easy. The operator works it by a pedal.

THE UNITED SPONGE CO. showed cases of all kinds of sponges, including Turkey cups. Toilet chamois leathers in white and colours, chamois powder puffs (each packed in a separate envelope), and loofahs were among the other goods we inspected.

Other exhibitors included: THE APOLLINARIS CO., LTD.; HORLICK'S MALTED MILK CO.; INGRAM & ROYLE, LTD. (mineral waters); THE NATIONAL CASH REGISTER CO., LTD.; PIRELLI, LTD. (surgical rubber goods); RIDGE'S FOOD CO.; SUTTLEY & SILVERLOCK, LTD. (labels); UNITED GLASS BOTTLE MANUFACTURERS, LTD.; VISCOSÉ DEVELOPMENT CO., LTD.; WEST SURREY CENTRAL DAIRY CO., LTD. ("Cow and Gate" milk food); YOUNG'S PATENT HYGIENIC BIN CO.

The Chemists' Dental Society

THE 12th annual meeting of the Chemists' Dental Society was held at 17, Bloomsbury Square, London, W.C., on June 21, Mr. J. W. Roberts, President, in the chair. Amongst those present were Mr. F. R. Sutcliffe (Vice-President), Mr. J. J. Laws (Treasurer), and Messrs. F. C. Ashford, S. V. Brook, E. Brownbill, S. Davis, J. H. Fenwick, J. B. Day Lewis, J. Hickman, E. Templar Malins, J. H. Morgan, A. E. Collins Nice, E. H. Smith, J. H. Lasker, G. Williams, H. A. Wigginton, W. Wigglesworth, and B. L. Workman.

In his opening remarks the President mentioned that it was the first time he had had the pleasure of presiding at a meeting of dentists, and congratulated those present on their accession to the Dentists Register.

The annual report and financial statement were approved and adopted. A discussion on dental ethics and advertising restrictions followed, during which the unanimous agreement was expressed to discontinue all dental advertising, and a circular is to be sent to the members giving full instructions.

The rules were altered to confine the membership to qualified chemists on the Dentists Register.

The following officers were elected: *President*, Mr. F. R. Sutcliffe, High Street, Buxton; *Treasurer*, Mr. J. J. Laws, Fulham Road, London; *Secretary*, Mr. J. W. Roberts, 10, Tavistock Place, London, W.C. A hearty vote of thanks to the retiring secretary, Mr. G. J. Lusher-Pentney, was passed for the way he had carried out the arduous duties in connection with registration.

The meeting closed with a vote of thanks to the President.

SWEDEN REJECTS ANTI-DUMPING BILL.—A Bill, recently introduced into the Swedish Riksdag, proposing certain measures to counteract dumping, facilitated by exchange conditions, has been rejected.

Personalities

MR. T. J. PARRY has been appointed by the De Vilbiss Co., Ltd., to the management of their London district.

MR. J. G. LEE, chemist and druggist, Neston, has been appointed a magistrate for the County Palatine of Chester.

MR. W. WOOLLEY, J.P. (Cupal, Ltd., manufacturing chemists), Blackburn, is making favourable recovery from a severe illness.

MR. C. FELIX BAYLEY, son of Mr. Cornelius Bayley, chemist and druggist, Uppingham, secured 2nd class honours in Part I. of the recent Cambridge University natural science tripos.

At a Congregation held at Cambridge on June 20, Mr. E. A. G. Marlar, younger son of Mr. J. F. Marlar, chemist, Colchester, received the degrees of B.A. and LL.B. (Honours).

MR. J. W. ROBERTS, chemist and dentist, 10 Tavistock Place, London, W.C., has been appointed honorary general secretary of the Chemists' Dental Society in place of Mr. G. J. Lusher-Pentney.

PROFESSOR DAVID THODAY, South African University, Cape Town, has been appointed to the Chair of Botany at University College, North Wales, in succession to Dr. Phillips, who retires after thirty-eight years' service.

MR. W. J. MOODY, son of Mr. W. J. Moody, druggists' sundriesman, Islington, London, N., has taken the M.B. degree of the University of Cambridge. Mr. Moody already held the corresponding degree from London University.

MR. A. B. HEAGERTY, son of Mr. G. B. Heagerty (a director of Barclay & Sons, Ltd., druggists' sundriesmen, Farringdon Street, London, E.C.), has passed, with honours, Part I. of the examination of the Chartered Institute of Actuaries.

At the recent annual festival of the Provincial Grand Lodge of Kent Freemasons, Mr. A. E. Hobbs, Ph.C., Tunbridge Wells, was appointed Director of Ceremonies, and Mr. J. T. T. Rolfe, chemist and druggist, Faversham, received the past rank of Junior Deacon.

MR. R. BOOTH (Squire & Co. (Birmingham), Ltd., chemists), Huddersfield Road, Wyke, Bradford, lectured to the local St. John Ambulance Division, on June 26, on pharmacy and materia medica. The lecture, which was illustrated by specimens given by Burgoyne, Burbidges & Co., Ltd., East Ham, was much appreciated.

THE Laming Exhibition at Oxford for Spanish has been won by Mr. John Bayard Morris, son of Mr. E. Herbert Morris, chemist and druggist, a well-known advertising man, once the editor of the "Austin Advocate," and previously with Burroughs Wellcome & Co. Mr. J. B. Morris has been a scholar for the last three years at King Edward's School, Birmingham.

THE principal article in the current issue of the "University of Durham College of Medicine Gazette" is from the pen of Mr. K. Shallcross Dickinson, F.C.S., Ph.C., who writes on prescribing, and illustrates his points with facsimile prescriptions. In response to various requests, Mr. Dickinson has arranged that reprints of the article will shortly be available; these may be obtained, at 1s. each post free, from the author, 1 Hawthorn Terrace, Newcastle-on-Tyne.

MR. W. HASKINGS, who has completed fifty years' service with Stone & Sons, Ltd., chemists, Exeter, was presented, on the occasion of the company's recent annual outing to Paignton, with a cheque and another gift from the directors, a case of pipes from the men on the staff, and a walking-stick from the ladies. Mr. T. Bradley Rowe, J.P., made the presentation; Mr. Ernest Stone and Mr. Laing, directors, were also present. Mr. Haskings feelingly replied, and paid tribute to the comradeship existing between the directors and the staff.

PRICES IN SOVIET RUSSIA.—The Central Commercial Office in Moscow states that for pharmaceutical products the prices ruling in 1914 are to serve as basis, multiplied by 700,000 in order to fix the present values.

Births

BERRY.—On June 17, the wife of Harry Berry, Ph.C., Municipal Technical School, Suffolk Street, Birmingham, of a daughter.

KEMSEY-BOURNE.—At 255, High Street, West Bromwich, on June 15, the wife of C. Kemsey-Bourne, M.P.S., of a son.

WHITE.—At 5 Cedars Road, Barnes, S.W., on June 25, the wife of Alfred Paul White, essential-oil merchant, of a son.

Marriages

DAVIES—PHILLIPS.—At Llandaff Cathedral, on June 24, by the Ven. Archdeacon Buckley, Emllyn Stanley Davies, chemist and druggist, Pontycymmer, to Emily Janet Phillips, 32 New Station Road, Whitechurch.

EVANS—BOWDEN.—At Bruera Church, Saughton, on June 14, Frederic Ernest Evans, chemist and druggist (Evans & Son, chemists, The Cross, Lymm), to Mary A. Bowden, youngest daughter of the late Mr. W. M. Bowden, Saughton Lodge, Chester.

LOYD—BOURET.—At the English Congregational Church, Newtown (Montgomeryshire), on June 12, David Leslie Lloyd, chemist and druggist, son of Mr. Tom Lloyd, Crescent Street, to Zoe Bouret, Hazebrouck, France.

SMITH—FORSYTH.—At 3, Crosshill Drive, Glasgow, on April 22, Sydney Smith, Ph.D., B.Sc., F.I.C., Ph.C., to Agnes Armstrong, daughter of Mr. William Forsyth, Rutherglen.

WILKINS—WILLIAMS.—At the Tabernacle, Cwmgorse, on June 22, William John Wilkins, chemist and druggist, Gwaun-cae-Gwaun, to Elizabeth Williams, Rock Shop, Cwmgorse.

WILLIS—DEVEY.—At St. Philip's Cathedral Church, Birmingham, on June 12, by the Rev. H. Newby, Arthur Thomas Willis, M.P.S., Droitwich, to Jessie Ruby Olive Devey, M.P.S., Erdington.

Deaths

BUSH.—At Stanley Road, Hornchurch, on June 16, Mr. William Bush, chemist and druggist, aged eighty-four.

COULTHARD.—At Jerriestown Farm, on June 23, suddenly, Mr. David Coulthard, chemist's assistant, Gretna, aged fifty-three.

PEEBLES.—At Kirkcaldy, on June 26, Mr. John Peebles, chemist and druggist, 70A High Street, aged seventy-three.

Mr. Peebles, who was a native of Fife, was apprenticed at Anstruther, and gained further experience at Greenock. After qualifying, he purchased a business at Lochee, Dundee, where his first apprentice was the late Mr. Peter MacEwan, afterwards Editor of THE CHEMIST AND DRUGGIST. This pharmacy was subsequently transferred to a younger brother, the late Mr. T. S. Peebles, and Mr. John Peebles removed to Kirkcaldy. Always interested in public affairs, he was elected to the Town

Council more than thirty years ago, and was returned as a baillie on five consecutive occasions. In 1911 the Council unanimously selected him for the office of police judge, a position similar to that of an unpaid magistrate in England. In this capacity he was

widely respected as an able administrator of justice. For nearly thirty years Mr. Peebles was treasurer of Whyte's Causeway Baptist Church, and he was a regular delegate to the Scottish Sanitary Congress. He is survived by a widow and a family.

LEWTON-BRAIN.—News has been received of the death of Mr. Lawrence Lewton-Brain, B.A., F.L.S., technical adviser to the Department of Agriculture, Federated Malay States, aged forty-two. Mr. Lewton-Brain, who graduated at Cambridge University, was appointed mycologist and agricultural lecturer in Barbados in 1902. Eight years later he took up the post of director of agriculture in the Federated Malay States. He issued numerous monographs on tropical plants, and was widely known in botanical circles.

WALKER.—At Wigan, recently, Jane Agnes, wife of Mr. Richard Thomas Walker, chemist and druggist (a director of Phillips & Son, Ltd., chemists), aged fifty-six.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, July 3

London Chemists' Golfing Society.—Qualifying Round, Sanger Cup. Until July 9.

Tuesday, July 4

Drug Trade Appeal Fund.—St. Bride Institute, Ludgate Circus, London, E.C., at 4 p.m. Biennial meeting of subscribers.

Wednesday, July 5

Pharmaceutical Society of Great Britain. 16, Bloomsbury Square, London, W.C., at 11 a.m. Council meeting.

Manchester Pharmaceutical Association.—Annual picnic. Train (special saloons) leaves Central Station at 2 p.m. for Grindleford. High tea at Maynard Arms. Tickets (12s. 6d.) from secretary or any member of council.

Birmingham Pharmaceutical Association.—Annual excursion. Motor-coaches to Stratford-on-Avon, starting 2 p.m. High tea at Shakespeare Gallery Café, boating, sports, etc. Tickets (10s. each) from secretary, Mr. F. Smith, 221, Soho Road.

Portsmouth Pharmacists' Association.—Charabanc outing to Hambledon. Cricket match, v. Southampton Pharmacists' Association. Leave Elm Grove 2 p.m., calling at Fratton Bridge, North End and Cosham. Tickets (6s. 6d. each, including tea) from the secretaries.

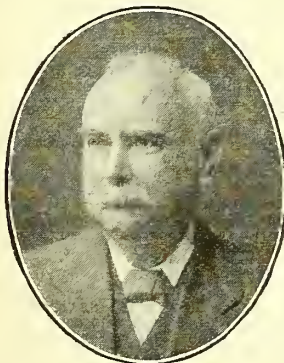
Plymouth and District Association of Pharmacists.—Annual excursion. Tickets (including high tea) 12s. each from any member of the Outing Committee.

LIVERPOOL CHEMISTS' ASSOCIATION has arranged a picnic to Ruthin for July 12. Charabancs leave Woodside Ferry at 2 p.m. High tea at Castle Hotel. Permission has been obtained to visit the Castle and grounds and St. Peter's Church. Return via Chester. Tickets (15s. 6d. each) from the Secretary, Mr. J. L. Hirst, 23, Eastfield Drive, Sefton Park.

LONDON (WESTERN) PHARMACISTS' ASSOCIATION.—The summer outing will take place on July 13. Motor-coaches will start at 2.15 p.m. from the Lancaster Gate (Central London Railway) Station for Henley-on-Thames. High tea will be provided at the Royal Hotel. Tickets (10s. 6d. each) from the Social Secretary, Mr. H. Martin, 16-30, Graham Street, City Road, N.1.

WEST HAM AND DISTRICT ASSOCIATION OF PHARMACISTS will hold the annual outing, on July 13, to Bishop's Stortford. Tickets (including high tea) 10s. 6d. each, from Mr. F. R. Maxey, 56 Woodgrange Road, Forest Gate, London, E.7.

THE SOARING CROWN.—In Austria the salaries paid to pharmaceutical assistants are based upon a fixed scale, according to age, length of service in the pharmacy, the relative costliness of living, and whether married or not. The owners do not pay the salaries directly to their *personnel*, but into a central fund. In view of the further increase in the cost of living, the Austrian Government has decreed that the salaries paid out from last November and subsequently are to be doubled; at the same time the contributions to be paid by the owners are also increased by 100 per cent., also the special monthly contribution levied on owners to cover contingencies has been raised from 1,500 to 3,000 kr.



MR. J. PEEBLES

Trade Notes

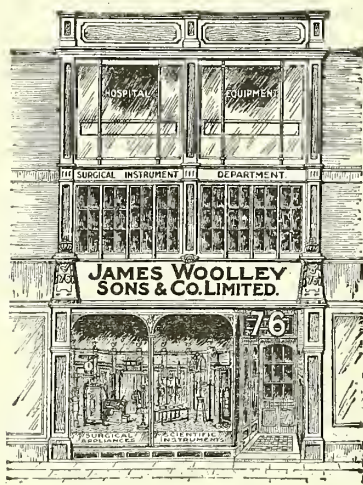
TABLET MACHINES.—Mr. J. F. Buckley, chemist's engineer, City House, 158 City Road, London, E.C.1, makes a special offer of tablet machines.

A. & F. PEARS, LTD., 71-75, New Oxford Street, London, W.C.1, have been appointed toilet soapmakers to H.R.H. the Prince of Wales.

KETOX.—Southall Bros. & Barclay, Ltd., Birmingham, devote their advertisement in this issue to Ketox, a new discovery for preventing insect bites. Showcards for the new preparation are supplied.

THERMOGENE.—The Thermogene Co., Ltd., Central Buildings, Victoria Embankment, London, E.C.4, give new bonus window display terms for Thermogene. The full details are laid down in the company's advertisement.

ANNUAL OUTING.—Wright, Layman & Umney, Ltd., manufacturing chemists, 44 to 50 Southwark Street, London, S.E. 1, inform us that their office and warehouse will be closed, on the occasion of the annual outing of the staff, on July 1.



MESSRS. WOOLLEY'S NEW DEPOT, MANCHESTER
(C. & D., June 24, p. 193.)

CLARKES' BLOOD MIXTURE.—The Lincoln and Midland Counties Drug Co., Ltd., Park Street, Lincoln, give notice in an advertisement in this issue that on and after July 1 all orders amounting to the gross value (£16 4s.) will be sent out in free cases.

EDWARDS' CATALOGUE.—W. Edwards & Sons, 157, Queen Victoria Street, London, E.C., have just issued a new catalogue of British and foreign proprietary medicines—Part II. of their complete catalogue. The list covers 120 pages, and is arranged and printed in a manner which makes reference easy. Articles with protected prices are printed in blacker type. The list is a great convenience in the pharmacy, as it contains particulars as to the price of such a large number of proprietary articles. Any chemist who has not received a copy can have one on sending a post-card request. Messrs. Edwards make a special offer of white open wove bandages. The prices are given in the firm's announcement in this number.

SOLOID ANTIMONY TARTRATE CO.—Burroughs, Wellcome & Co., Snow Hill Buildings, London, E.C.1, have issued Soloid antimony tartrate compound for the treatment of bilharziosis and leishmaniasis by intravenous injection. There are two strengths of these soloids, No. 1, and No. 2, and the proportions are so adjusted that if dissolved according to the directions, a solution results of antimony tartrate in normal saline ready for immediate use. Precautions have to be observed in preparing the solution, which are explained in a leaflet that has been issued dealing with the administration of the re-

medy. The soloids are packed in blue triangular bottles in salmon-coloured cartons, and each package contains 25.

CONTRAMINE.—The British Drug Houses, Ltd., Graham Street, London, N.1, have sent us a sample package of Contramine, introduced by Mr. J. E. R. McDonagh, F.R.C.S., for the treatment of syphilis, rheumatism, arthritis, etc. Contramine (diethyl-ammonium diethyl-dithiocarbamate) is non-toxic, and it possesses the advantages that—(1) it is readily soluble in water and is eminently suitable for intravenous injection, (2) it produces no pain when injected intramuscularly. Contramine is sent out in boxes containing six glass tubes, each holding one 0.25 gram. dose of Contramine in solid form. The contents of one of these tubes constitutes the usual dose. Very full directions for use intramuscularly, intravenously and locally are given in a leaflet which has been issued.

Business Changes

MR. G. LEWIS, chemist and druggist, has opened a pharmacy in the premises known as the Chemical Hall, St. Clears.

MR. W. R. MOORE, chemist and druggist, late of Folkestone, has acquired the business of Mr. T. Turnell, chemist and druggist, Brasted.

ASCOTTS PHARMACIES, LTD., have opened branches at 198, Crownfield Road, Leyton, and 67, Westbury Avenue, Wood Green, and will open very shortly at 69, Broad Lane, Tottenham.

MR. S. D. ROPER, who has terminated his engagement with F. W. Bowyer & Bartleet, has commenced business on his own account as a general produce broker at 7 Mincing Lane, London, E.C. 3, under the style of S. D. Roper & Co.

The business of H. Roberts & Co., pharmaceutical chemists, Rome, has been amalgamated with the chemical manufacturing firm of L. Manetti & Co., the new company having the title Società Italo-Britannica L. Manetti-H. Roberts & Co. Anonima, has a capital of eight million lire, and has establishments at Florence, Rome, Naples, Milan, Verona, etc.

MR. JULES FUERST announces that he has agreed to purchase the goodwill and trade-marks of Fuerst Brothers, Ltd., from the liquidator, such liquidation having become necessary partly owing to the decease of his brother. The business will therefore be continued under his direction at 17 Philpot Lane, London, E.C. 3, under the style of Fuerst Brothers & Co., Ltd. (nom. capital, £20,000).

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

E/286. Microdene	Y/246. "Sanco" Bandages
M/286. Peptonia	(vet.)
M/286. "Unit" toothache drops	R/226. "Knuckliff" surgical gloves
B/266. Sassafras soap	G/246. Perkins' starch glue
G/276. Tooth-brush machinery	D/186. "Actus" film cameras
B/276. Pine Odour Fluid (toilet)	S/196. Floreine creme
	P/246. Barclay's Royal Olive Soap

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4.

Powder bellows, C/286	"Koh-i-Noor" tooth and nail brushes, M/246
Window ticket writers, R/286	Small ice-cream machines, B/246
Kiesow's Essence of Life, J/276	Carrier cycles, A/236
Welch's Grape Juice, S/226	Transparent envelopes, A/236
Boracic loofah socks, D/226	Phlogetan, H/236
Sulpholine Lotion, C/236	Simple Soothers, B/236
Wulfin's Formamint, O/266	Hopogan, Z/266
"Dorsella" Milk Products, M/246	

Observations and Reflections

By Xrayser II.

Your Summer Number

has proved so attractive that absorbed in its perusal I have left myself no time to speak of it with anything like justice. Its external appearance is delightful, its advertisement pages surpass the best of its precursors, its literary contents are as varied, as interesting, as important as ever, and the illustrations are half as numerous again as those with which you astonished us last year, and equally attractive. The garden scene on the front cover is a gem both of colour and design, and the "Golden Morn" of Dubarry et Cie. is a worthy pendant to it. As a former resident in Nottingham I have been particularly delighted with your article on that town and its attractions. I am glad to note that you speak cautiously of the derivation of the place-name. There is another, which, though it has failed to secure the support of modern etymologists, is freer from unsavoury suggestions. Asser, the biographer of Alfred the Great, renders the Anglo-Saxon, *Snottengaham Spleincarum donum*, "a house of dens," making it refer to the caves with which parts of the town's site are honeycombed (see Gibson's "Camden," p. 482). This, at any rate, agrees with the British name quoted by you, meaning "the place of caves." The public-house with the strange name, the "Trip to Jerusalem," is said, I believe, to occupy the site of a hostel originally set up there for the convenience of pilgrims on the way to the Holy City. May I supply another item to the literary associations of the town? I have a very lively recollection of a capital monthly magazine, issued by Mr. Dearden, a bookseller in the town, under the title of "Dearden's Miscellany," of which the future Dean Alford was editor. I doubt whether any other provincial town in the country could boast a publication of greater literary merit. It was too good, alas! even for Nottingham, for it did not run many years.

The Word "Dentist"

was in common use before Thomas Berdmore, of Nottingham, was in practice; the "Edinburgh Chronicle" sneered at it in 1759, as being "well enough for a French puffer," but in the following year both it and "Dentologist" were used as titles of respect by a London paper. Berdmore would then be about 20 years old, and being evidently a smart man, would be pretty sure to be up to date in such a matter. Dentistry was then, I should say, a more lucrative profession even than it is now. In 1771 Patence, ostensibly a cheap man, advertised whole sets of teeth at ten guineas, half-sets at five guineas, and single teeth at half-a-guinea. Translated into present values these would be very remunerative prices. He sold, too, powders and other medicines for the preservation of the teeth, his lowest price for which seems to have been half-a-guinea. Probably more reputable practitioners would do better still than this.

The Whirligig of Time

has brought about many changes in the personnel of Nottingham pharmacies since I left the town, more than fifty years ago. Not one of the shops illustrated in your article is carried on under the same name now as then, not one of the pharmacists whose portraits you gave was then known to me. Most of the businesses have been established since then, indeed, only three or four of them do I remember. Among these are Mr. Sargeant's and FitzHugh & Carr's. Frank White's name used then to be familiar in Hollow Stone, and Mr. Bass was a formidable rival of my own governor's. "All, all are gone, the old familiar faces!" and many of the shops have vanished as well as their owners. The old friend, then serving his apprenticeship in the shop on Beeston Market Hill, who passed the preliminary examination along with me, is probably the only man left who can fully share my reminiscences of the trade of the town as it was then.

The Chemists' Defence Association

has, to say the very least, been unfortunate in its recent defensive actions. The worst of its failures is seen in the case of Holt v.

Northern, and Mr. Mallinson's article on indemnity insurance in the "Glaxo Service Bulletin" for June does not make the failure appear any less than it actually was. Indeed, the only conclusion to be drawn from the article is that either the defence should not have been undertaken at all, or it should have been carried to the Court of Appeal. None of the objects aimed at was attained; the only question in dispute was a question of fact, and all the facts on which the decision was based were apparently as well-known when the case was opened as at its close. If they are now admitted to have been insufficient to secure a decision in the defendant's favour, why were they not seen to be so at first? The difficulty of proving a negative is proverbially great, and this is what the defence set out to do. It cannot be said that in this case the affirmative was proved, but that, apparently, was not necessary. No other theory than that the poison was contained in the drugs supplied by the defendant satisfied the judge, and though the evidence showed the plaintiff's "suggestion as to how it happened" to be morally impossible he accepted it as proved. To have left the matter there is virtually to have acquiesced in his decision, which is worse, so far as the effect on the public is concerned, than to have settled the plaintiff's claim out of court.

Exaggerated Statements

usually defeat themselves, and it is doubtful whether Dr. Furlong's tirade against tobacco will do anything towards checking the habit of excessive smoking. Equally strong denunciations of the "weed" have from time to time been launched against it by medical men, political economists, and social reformers ever since its introduction into the country about the middle of the sixteenth century, and all in vain. It might, indeed, be plausibly argued that King James's "Counterblaste" and "Commissio pro Tobacco," and the wild invectives of Sylvester and Deacon, rather stimulated than abated the use of the drug, as it was then generally called. The "Counterblaste" first appeared in 1604, and ten years later it was estimated by Barnabee Rych that there were no less than 7,000 shops (including those of the apothecaries) in London alone selling tobacco, and virtually "living by that trade." In 1616 the commoner kinds were sold at threepence and fourpence an ounce (about fifteen shillings of our money), and the best qualities for their weight in silver. So much for royal and other denunciations of the herb, which did but call forth equally extravagant opinions on the other side. Dr. Furlong equals the exaggerations of the herb's early opponents when he says that when taken in excess its effects are worse than those of opium or cocaine. That is simply impossible. As a non-smoker I am fully alive to its moral effects; it often makes the most amiable of men selfishly indifferent to the comfort of others, and regardless of the most elementary principles of good breeding. Physically it is, no doubt, productive of much harm to many constitutions. But these evils, which generally speaking are due to over-indulgence, are not comparable to the moral and physical wreck wrought by cocaine, and the fanatical hater of tobacco is too ready to lay the blame where it is not due. I have myself been refused a first-class life insurance because the company's doctor accused me, after examination, of being an excessive smoker, though in fact I never smoked pipe, cigar, or cigarette in my life, and told him so.

At Blackpool, during the past municipal year, 145 packets of Glaxo were provided free, and 806 packets were supplied at or below cost price.

PRIVATE EXHIBITION OF FINE CHEMICALS.—Beginning on June 20, a three days' exhibition of fine chemicals was held at Caxton House, Westminster, for the purpose of bringing the claims of the fine-chemical industry more prominently to the notice of Members of Parliament. A correspondent of "The Yorkshire Post" quotes a member of the industry as saying: "We have recruited an army of young chemists to fight our battles in research and in applied chemistry, and we must not demobilise them while Germany is putting forth all her efforts to beat us back to our helpless position before the war."

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Editorial Articles

Colouring Poisons

DURING the hearing of a recent claim for damages, in which poison was alleged to have been supplied in place of a harmless medicine, Mr. Justice Darling said the evidence showed that mistakes of this nature "could be obviated if it were enacted that all poisons should be of a definite colour." His Lordship further said:

"One would think that with a little ingenuity, people who could find a new colour for a ribbon could find a new colour which should be used for nothing whatever but poison. With regard to poisons in powder form, the legislature has made an effort to see that those are coloured so that they are not all white, and certain of them could not be mistaken for others."

The *obiter dictum* of a judge is always entitled to respect, no matter how impracticable the suggestion

appears to technical people; hence questions have been asked in Parliament about the matter, and the Privy Council has inquired of the Pharmaceutical Society as to the practicability of the proposal. From the last report of the Council meeting of the Pharmaceutical Society it appears that the Codex Committee is grappling with the problem. There has been some correspondence in *THE CHEMIST AND DRUGGIST*, and various aspects of the question have been discussed. The invention of a new colour, which is called for by Mr. Justice Darling, is out of the question, quite as much as the reservation of a colour for use solely in poisons. There is no possibility of "inventing" a new colour unless we can succeed in changing the laws of Nature. The colours of the spectrum are strictly limited, and the most that can be done is to vary the tints and shades of the existing colours by blending or preparing them from new substances. Suppose it was decided that a particular shade of red was to be reserved for colouring poisons, it would require extremely stringent legal restrictions to confine it to that purpose, especially if it were an attractive shade, and even then it would not be possible to compel the public to associate a colour with poison. It is true that there is an instinctive dislike for green as a colour for confectionery, table jellies, etc., but nevertheless that colour is used in certain liqueurs which attract rather than repel the public. The colouring of solid poisons was referred to by Mr. Justice Darling, who had had the colouring of arsenic brought to his notice in a recent murder case. By the Arsenic Act, 1851, *scot* or indigo has to be added to white arsenic in certain cases, but it is questionable whether this precaution has ever prevented accidental poisoning. It certainly would not act as a deterrent to the use of the poison in murder or suicide. When the Arsenic Act was passed arsenic could be sold freely by any trader, and it was hoped that colouring would make it impossible to mistake it for an article of food such as flour. A grey powder does not necessarily indicate poison. In regard to the colouring of poisonous liquids there is the familiar practice in hospitals of colouring antiseptic solutions blue or pink, but this is done to prevent the use of one solution in place of another, and not to prevent poisoning. Fowler's solution is often mentioned as a case of a coloured arsenic solution, but a reference to Fowler's "Medical Reports of the Effects of Arsenic" shows that the *tr. lavand. co.* was added "merely for the sake of giving it a medicinal appearance, lest, from its being colourless and tasteless, those patients who may happen to be intrusted to drop it for themselves, should be tempted to use it with too great freedom." The liquor was devised for Dr. Thomas Fowler by Mr. Hughes, the dispenser at the Stafford Infirmary in October, 1783, as an imitation of a patent ague cure. It was called "mineral solution," to disguise the fact that it contained arsenic and was administered in drops. It is obvious, therefore, that liq. arsenicalis must not be regarded as having been coloured to prevent accidental poisoning, but rather to give it the appearance of medicine. Mr. Justice Darling had in mind the colouring of liq. strychninae so that it could not be mistaken for sp. æther nit., but if a colour were used for strychnine solution it would also be needed for other water-white liquids equally poisonous. Fluorescein, acriflavine, and emerald green have been suggested as suitable substances to "ear-mark" poisonous liquids, but we doubt whether a physician would care to administer hypodermic solutions containing these substances. In that case we might have liq. morph. coloured and the much stronger hypodermic

solution uncoloured, an anomaly which should appeal even to the man-in-the-street. Mechanical means of preventing accidental poisoning have in the past been ineffectual, and colouring poisonous liquids is likely to be equally futile. The education of the vendor and the observance of the statutory poison-storing regulations have been shown by experience to be the surest methods of preventing accidents in compounding and dispensing poisons.

Chemical Market Conditions

IN our issue of December 31 last, we published tables comparing the prices of industrial and pharmaceutical chemicals at the close of December, 1921, with those of the corresponding period of 1920, and in our editorial article in the same issue we commented on the slump and some of its causes in which we said

as to the future, we are still inclined to the view that the first few months of the year will continue slack, with values still on the downward grade. However, given world peace, a steady up of Continental rates of exchange, and no labour troubles at home, a turn for the better should take place before the half-year is reached.

To some extent, despite the continued unsettled state of European politics, with the consequent interruption of international commerce and the greatly depreciated rates of exchange in relation to the pound sterling, these views have been borne out. The tables of prices given on page 34 show that values of most products have continued to fall during the last six months (January to June), but the slump has not been anything like so sharp, and there has been a gradual steadying of the market of late that points to a better tone. For the first three months business showed little, if any, improvement, and prices, especially of spot stocks which were at that time considerable, reached levels far below the cost of manufacture. During April a brisk but short period of business was experienced, but this was killed by the engineers' strike. In May and June there was a distinct, although quite small, gradual increase in demand, both at home and abroad, the former being more pronounced. Much of the accumulated stock of chemicals has now been cleared, and prices have had a firmer tendency, and for those products for which there has been a good demand the present prices show up at higher rates than those of six months ago. Although the position of the chemical trade to-day is still far from satisfactory, and the world conditions make it unsettled from day to day, there is certainly a more hopeful outlook, and it is generally agreed that the worst of the slump and the utter lack of demand at any prices has passed. As regards the home market, the demand during the first half of the year has continued very restricted, but now shows a slight improvement. The limited sales are due to a number of causes, chiefly on account of the quiet state of those industries consuming chemicals and to the prolonged and widespread labour disputes. Last year industry was held up for months by a disastrous coal strike. No sooner was this settled and trade began to revive than the engineers' dispute dislocated the many industries dependent upon it. It is difficult to estimate the damage these almost national labour troubles cause. They reflect upon practically the whole of the commercial and industrial community of the country and bring with them loss of trade, with consequent distress throughout, following upon the inevitable increase in unemployment. Of late labour seems more amenable to reason, and it is to be hoped we have seen the last of these national hold-ups for some time to come. The engineers' strike has recently been settled,

and although it will take some time for this to reflect on the chemical trade an improved demand should be noticeable at an early date. The textile industry is getting back to normal conditions and should require good supplies. A feature of the market this month has been the strong demand for citric acid, tartaric acid, and cream of tartar, and other seasonable goods. In these lines spot prices have advanced and supplies are said to be difficult to find. A factor that has had a good effect in steadying prices on spot is the much higher quotations now being made by Continental makers. Whereas the terrific decline in prices between January and December 1921 was the result of the sudden lack of demand at a time when very large stocks were held and commitments had been made, which had to be cleared at any prices obtainable on a market that had previously soared right up to hitherto unheard-of prices, the fall in values during the last six months has been due to the gradual declining cost of manufacture, and this process will have to continue until the industrial world returns to an economic basis. Compared with pre-war prices a large number of chemicals are still 50 or 60 per cent. higher. It is, however, good to see that the present prices are approximately equivalent to the current costs of manufacture. With this steadier and sounder basis buyers should regain their old confidence by placing their orders at regular intervals for good quantities. The almost hopeless state of affairs recorded last December in export trade is perhaps a little brighter, but even now our foreign sales leave much to be desired. The continued low rates of exchange prevailing on the European continent make it exceedingly difficult to sell British goods; in fact our late enemy countries find it quite impossible to purchase from our markets. Germany has of late been purchasing some chemicals here, but they were generally to fulfil orders which she could not meet from her own output. The conditions in Italy are a little better, but the value of their money compared with the pound sterling is against good trade with us. Greece continues to be a difficult country; some orders could probably be booked, but most firms consider it too risky to ship goods without receiving payment beforehand. The reports from South America state that business is reviving, but the bitter experience of some of our exporters during the slump some two years ago make them hesitate before doing business on anything but a cash with order basis. Our Colonies continue to be our best post-war markets, and this condition is likely to last so long as international rates of exchange handicap the sale of British goods. Our great opponent in the world's markets, especially for chemicals, is Germany, and it must be admitted that for some time she has been easily able to undercut British prices. The low external value of the mark has been a guarantee that she could obtain any export business that was passing. This apparent prosperity reflected by industrial activity is, however, unsound, and a breakdown in German finance is regarded as only a matter of time, and with it will be the end of her boom and command of all markets open to her. Generally the outlook for our export trade is still overcast, and business will make no great strides towards a return to normal until the foreign buyer can afford to come on our markets, and that will only be when his money is somewhere near par value. In the meantime we should foster and extend our Colonial markets, where the rates of exchange difficulty is not encountered and where British goods are generally preferred to foreign.

Scientific Glassware

THE scientific glassware case, which recently came before Mr. Cyril Atkinson, K.C., the Referee under the Safeguarding of Industries Act, is one with which, in our opinion, he should never have been troubled. A little consideration on the part of the Board of Trade when drawing up their somewhat unfortunate list—or at a later stage—would have indicated to the Customs officials their proper duties, and saved traders much expense and confusion. Instead of this a case is brought before the Referee and Sir Herbert Jackson and Mr. E. J. Parry were called by the parties to give evidence, which in substance was without disagreement, and which showed that all that the Referee could do was to elaborate definitions or limitations for the loose and ambiguous words of the Board of Trade list. This judgment, which we print in full on page 29 of this issue, is, in our opinion, a very excellent one, and is one more piece of evidence that Mr. Cyril Atkinson is a man of affairs as well as a man of law. Technically the complaint fails. Actually the complainants get most of what they ask for. Reagent bottles cannot be taken from the list, because they are scientific glassware. But to be reagent bottles in truth, they must come up to a given standard, and as the bottles the complainant wants to bring in do not come up to that standard, they come in without duty. So the complaint fails. *O! splendide mendax.*

The Drug Index

THE month of June shows a continued decline in certain lines which affect the index figure. There are ten in all: Extract cavære sag. liq. ferri ammon. citras, linimentum camphore, linimentum saponis meth, sodii salicylas, syrupus ferri phosph. co., syrupus Easton., tinctura chloroformi et morphine, unguentum acidi borici, and unguentum zinci. There is no corresponding increase in cost, and the index shows a fall of 8.2 points. This is the greatest monthly fall since March, 1921. Calculated on the average turnover for these lines, the percentage depreciation value is 1.2. In surgical dressings there is a further fall in large packets of gauze, which does not affect the unit figure. In lint and boric lint there is a fall sufficient to show a drop of 3.8 in the index figure. This works out at an average percentage depreciation of 1.15. In containers there is a further adjustment of prices. The table to date is as follows:—

DRUGS (1913=100)

	1916	1917	1918	1919	1920	1921	1922
Jan. ..	263.3	198.8	207.6	232.9	315.2	239.0	182.0
Feb. ..	262.8	191.1	212.5	230.6	324.3	226.0	178.0
Mar. ..	264.5	185.0	215.2	216.2	336.4	215.8	171.3
April ..	266.1	183.5	216.5	207.0	345.8	212.8	170.4
May ..	265.3	188.1	224.6	196.0	344.6	209.7	169.8
June ..	270.4	191.3	221.8	200.9	362.7	207.5	161.2
July ..	259.4	193.9	217.0	202.3	341.4	200.4	—
Aug. ..	227.5	198.7	217.8	205.2	322.5	193.2	—
Sept. ..	210.2	201.7	219.7	213.9	334.6	188.1	—
Oct. ..	204.6	202.5	227.5	216.2	289.6	186.8	—
Nov. ..	202.5	203.0	242.4	216.4	268.2	188.9	—
Dec. ..	198.4	204.6	236.6	218.0	258.2	188.2	—

DRESSINGS (1913=100)

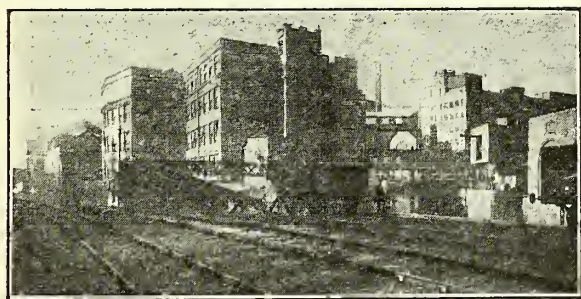
	1916	1917	1918	1919	1920	1921	1922
Jan. ..	133.0	202.0	390.5	478.4	390.2	268.8	214.6
Feb. ..	133.0	203.0	438.1	390.0	357.6	250.6	214.6
Mar. ..	140.0	205.0	438.1	276.2	405.8	250.6	209.0
April ..	141.3	204.5	483.1	286.8	400.4	256.6	203.4
May ..	153.0	274.0	483.1	268.8	402.4	256.8	201.2
June ..	153.0	240.0	483.1	268.8	408.2	256.2	197.4
July ..	160.0	264.8	483.1	231.3	445.2	244.4	—
Aug. ..	153.0	273.5	495.0	253.3	445.2	230.6	—
Sept. ..	153.0	291.3	501.7	270.1	406.6	230.6	—
Oct. ..	172.2	291.3	511.2	292.9	374.2	230.6	—
Nov. ..	191.5	316.5	513.3	308.7	365.2	230.6	—
Dec. ..	201.5	316.5	513.3	333.7	320.6	230.6	—

Nottingham Manufacturers

BOOTS PURE DRUG CO., LTD.

TEETH of the mammoth, archæologists tell us, have been found in the strata underlying Island Street, a thoroughfare now almost entirely occupied by a portion of the works of Boots Pure Drug Co., Ltd. In view of the impressive scale on which these works are built, there is a certain appropriateness in the discovery, provided always that we remember there is nothing antediluvian about Messrs. Boots' organisation. To gain anything more than a general impression of the scope of the processes carried on at Island Street would require more than one day's attention, to say nothing of the physical effort involved in covering the ground; and it must be premised that the following paragraphs are the outcome of a whirlwind tour undertaken under the courteous guidance of Mr. Holthouse, the works manager.

Bordering the canal, the sinuous course of which gives Island Street its name, stands the up-to-date power station, of 1,750-kilowatt capacity. Coal is taken direct from barges to the top of the building (80 feet high) by suction, minimising labour and eliminating dust. The automatic firing on to chain grates is controlled in accordance with records of the carbon dioxide present in the gases in the chimney; and all the water used is put through a water-softening plant before entering the boilers. (The boilers were temporarily fitted with auxiliary oil-firing during the last coal strike. Anyone interested in the subject of fuel control in works will be able to find Messrs. Boots' system described in detail in an

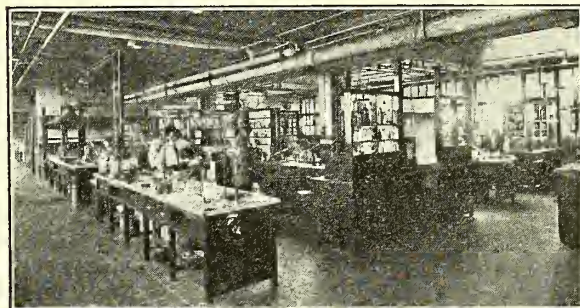


MANUFACTURING LABORATORIES

article in the "Fuel Economy Review" for May 1922). The power house, with its glazed white brick, red tiles, and highly polished brass, is a model of cleanliness. It comprises generators, vacuum pumps, pressure pumps, ammonia compressors, switch board and transformers, each piece of plant being connected up to a self-registering recorder which provides a complete log for the chief engineer each morning. Not far from the power station stands the ice house. During the war it became necessary to procure ice in large quantities in connection with the production of saccharin and other fine chemicals. Messrs. Boots approached the problem in a comprehensive way, and brought into operation a refrigeration plant capable of producing 20 tons of ice a day. At the time of our representative's visit some 1,000 tons of ice was in store against the summer demand, which may be expected to outpace even the company's rate of production.

It would be unwise to hazard a guess at how many distinct laboratories are housed under Messrs. Boots' capacious roofs; but it is sufficiently accurate to say that four or five separate kinds of laboratory are kept going. First, there is the laboratory charged with the control of all products issued by the company. A good example of work of this class is the modification of the Gutzzeit method of estimating arsenic, which modification has, by years of constant research, been brought to a high state of perfection. The importance of a process which is easily worked, takes only a reasonable time, and gives accurate results may be realised when one knows that the company carry out, on an average, thirty arsenic estimations every day. The dark-room with its polarimeter, the automatic shakers and the centrifugal machine all

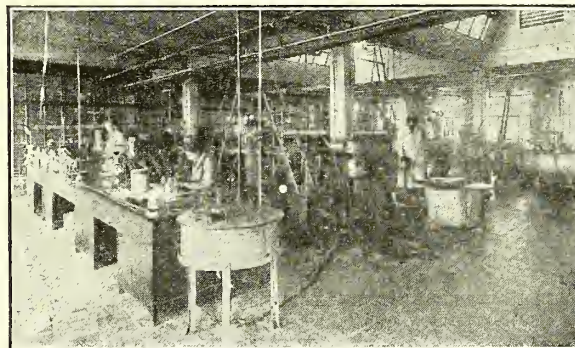
claim passing interest. Sheringham daylight is also installed, to the manifest advantage of the expert staff. Next, there is the laboratory in which all raw materials entering the premises are subjected to analytical examination, and their points systematically noted in schedules printed on cards. By filing the cards on the card-index system, records of the utmost value are set up; and visitors to the works who wish to realise what scientific control really means should ask to be shown some of



RESEARCH LABORATORY

these fascinating data. In one room of the floor just referred to there is a collection of standard *materialia medica specimens*, together with rare forms of drugs and quite a number of freaks in adulteration. A good example of these curiosities is a bundle of sarsaparilla root enclosing a long, narrow stone resembling a prehistoric spear-head. Elsewhere, research pure and simple is carried on; and one or more research departments are fully equipped for small-scale experimental work. Completing the cycle, as we may call it, is a technical research laboratory in which the results of small-scale operations are tested on a small manufacturing scale, and are elaborated into practicable works processes. In this laboratory a large stone jar of one of the synthetics used in perfumery (in a dilution of 1 in 3,000) was uncovered for the inspection of the C. & D. visitor.

For the manufacture of fine chemicals a series of buildings has been specially designed, each building being, as far as possible, reserved for the manufacture of one product, or one type of product. Here have been originated products of exceptional purity, many of which had not been made in this country prior to the outbreak of the recent war. Acriflavine, aspirin, atropine, caffeine,

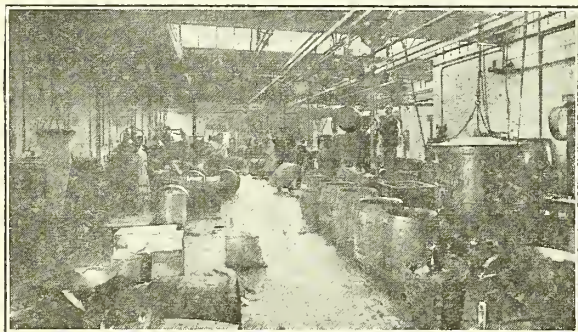


TECHNICAL RESEARCH LABORATORY

chloramine-T, chloroform, eucaine, homatropine, salvarsan, and vanillin may be quoted as examples of products now firmly established on the market. The synthesis of saccharin is carried out under constant Excise control until it reaches the bonded store. Messrs. Boots claim that their saccharin plant is capable of meeting the total requirements of the British Empire; and it is undoubtedly an outstanding example of initiative and enterprise displayed in a time of national need.

The pharmaceutical department, like the fine-chemical department, is installed in a building erected for the purpose. In passing, attention may be called to the extraordinary cleanliness everywhere observable, floors

being tiled or paved, corners being rounded off, and so forth. Ointments and other greasy preparations have a room to themselves, and for incorporating insoluble powders of varying densities several clever mechanical devices are employed, in addition to a battery of mills. The main laboratory is liberally equipped with all the usual appliances, in addition to overhead runways built in as an aid to handling heavy material. Here chemical food is turned out in $2\frac{1}{2}$ -ton batches, and compound syrup of hypophosphites at the rate of 1,000 gallons a week. The scaling room is well worth a visit. The company are justly proud of their scale preparations, in which they have lately completed a contract for 4 tons. Considering that each sheet of glass used for drying yields only about $\frac{1}{2}$ oz. of scales, readers fond of statistics may like to calculate the number of sheets thus covered in executing this contract. A complete extraction plant is installed, occupying three floors, and enabling medicinal extracts to be prepared under ideal conditions. In one vat, on the day mentioned, $2\frac{1}{2}$ tons of cascara bark was being extracted with cold water, the concentration being effected in a vacuum concentrator. In another vat, poppy heads were being treated with boiling water for the preparation of extractum papaveris liquidum, B.P.C. On the ground floor are situated the vacuum pumps, heavy mixers, rectifying still, centrifugal machine, and vacuum cupboards. In a separate section on this floor tinctures, liquid extracts, concentrated infusions, and the bulk of the alcoholic preparations are made. Batteries of percolators of various sizes and composition are fixed in close proximity to the



IN A MANUFACTURING DEPARTMENT.

hydraulic press. Many products require more than one of the glass-lined steel containers, of 250 tons capacity each, for their storage.

The pill department, the pastille department, and the lozenge department—which was just starting on a 50-ton order without disturbing the output of other lines—must perforce be passed with a mere mention; but the capsule department demands a few lines to itself, as, too, does the tablet department. Capsule-making, as anyone who has tried it on a small scale is aware, is not easy; such, however, is the organisation in Messrs. Boots' case, with automatic power presses and numerous gadgets for ensuring uniformity of product, that it looks easy. The tablet department is equally a triumph of devices and design, thinking in millions being the rule. Special attention has been given to aspirin, with the result that a "super aspirin" tablet has been evolved. All the stages of sugar-coating were in evidence when the *C. & D.* man passed through this section, from the first dull layer, about the thickness of tissue paper, to the final polish.

In the packed-goods department, the stages of finishing off any product—for instance, tins of health salt—are of great interest to the onlooker, and, one cannot help thinking, to the workers. A slowly-moving endless band carries each bottle or packet from one operation to another, everyone being allotted a particular part in the work; and in this way the rows upon rows of well-trained girls in neat overalls quickly dispose of grosses of goods. The last scene takes place in the distribution departments, spacious, well lighted, and highly organised as to division of function. In or near one of these departments is the "opening order" section, containing every-

thing necessary for fitting out a retail shop. Nor, even in so brief a survey as this, must mention of the engineers' department be omitted. It is on a large scale, and, with its lathes, drills, forges, and steam hammers, makes one realise that the maintenance of such a plant must be quite a business in itself.

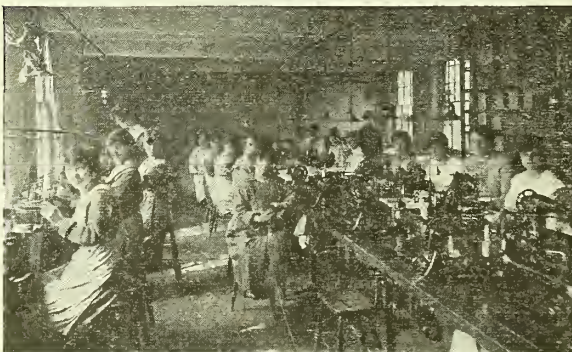
Parties of pharmacists from various local associations have already visited Messrs. Boots' works from time to time. All who have that privilege will agree that the thoroughness with which problems are attacked, the labour-saving devices, the analytical control, the complete system of checking, and the obvious enthusiasm of the heads of departments are fully worthy of the splendid buildings in which so many activities find a home.

J. H. HAYWOOD, LTD.

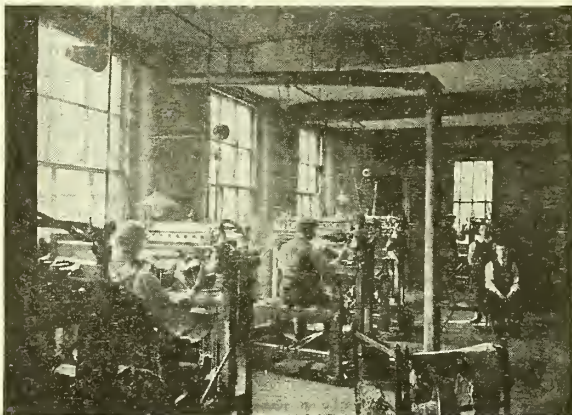
The business now known as J. H. Haywood, Ltd., was established in 1833—nearly ninety years ago—by Mr. J. S. Haywood, the inventor of seamed surgical



TRUSS MAKING



SURGICAL HOSEFACTORY



MAKING SEAMLESS HOSEFACTORY

elastic hosiery. He was in due course succeeded by his son, Mr. J. H. Haywood, J.P., who invented seamless surgical elastic hosiery. This seamless hosiery, it may be

explained for the benefit of the uninitiated, differs materially from seamed hosiery, not only in the absence of binding, but also in the fact that the indiarubber threads are laid in spirally, instead of from side to side. Messrs. Haywood are the pioneers in this part of their trade—the invention, as we have just indicated, of a former proprietor. The present managing director is Miss E. F. Haywood, and Mr. W. Rowden, another director, is the general manager. The staff in each department consists of trained experts and skilled workers. As is well known, Messrs. Haywood make surgical appliances of many kinds, and it will be readily understood



RUBBER COVERING MACHINE

that their mechanics' shop is equipped with the latest and best tools for every operation connected with the manufacture of artificial limbs, trusses, belts, and so forth. Nor must we omit to mention that a large stock of druggists' sundries is held, this department being under the management of Mr. A. E. Gill. This side of the business has been greatly developed of late years, and now comprises surgical dressings, dispensing bottles, and, in fact, practically all the thousand-and-one things that such a department may contain. The accompanying illustrations afford some idea of the processes involved in the making of trusses and of surgical elastic hosiery.

French Specialities in Belgium

BRITISH manufacturers of pharmaceutical specialities will be keenly interested in following the developments resulting from the important step taken by the Belgian pharmacists with the object of removing a glaring international anomaly. France stands alone in absolutely prohibiting the importation of all remedial agents (i.e., pharmaceutical preparations and specialities) consisting of more than one substance and which are not included in any official pharmacopœia; this prohibition is so rigid that, although a chemical substance may be imported as such, it cannot be imported in the form of tablets, since it then acquires the character of a "compounded medicament not included in an official pharmacopœia." While France thus closes her doors to all foreign specialities, many of her preparations answering this description find a ready market in practically every country, regardless of the absence of any reciprocity.

The discussions now taking place between Belgium and France with the object of concluding an economic entente between both countries have been seized by the Syndical Chamber of Pharmacy and the Nationale Pharmaceutique, the two official organisations representing the pharmaceutical profession of Belgium, to draw attention to this very one-sided attitude of their Gallic neighbours, and at the same time to formulate certain proposals for the consideration of the Belgian Government in its pourparlers. In view of the importance of this question, since it also closely affects British interests to at least the

same extent as that of Belgian manufacturers of this category of products, we reproduce the whole of the joint memorandum.

(a) The system of free trade adopted by Belgium, on the one hand, and the French system of protection, on the other hand, have resulted in placing the Belgian pharmaceutical industry in a position of intolerable inferiority, rendering impossible any expansion of this industry, as well as of the Belgian chemical industry, in their dealings with France. All chemical products, and all pharmaceutical specialities, are allowed to enter freely into Belgium; only those containing sugar, alcohol, or wine being subject to Customs dues based on the amount of sugar, alcohol, or wine contained in the same. The same applies to articles of perfumery. However, when wishing to export to France, we find that the frontier offers an unsurmountable barrier, or very nearly impassable, since the French law contains the following provisions: (1) Total prohibition of importation of all remedial agents, pharmaceutical preparations, and specialities consisting of more than one ingredient and not included in an official pharmacopœia; (2) in the case of medicines included in an official pharmacopœia, in order to obtain the right of entry into France, they must be approved of either by the High School of Pharmacy or by the Committee of Arts and Manufactures, and if their importation is sanctioned, they are, in most instances, subjected to *absolutely prohibitive Customs charges*. Further, the Customs formalities are such as to discourage even the most enterprising of exporters.

(b) In view of this very inequitable situation, we express the wish that the position of the pharmaceutical and chemical industries may be improved by the following means:

The importation of Belgian chemical and pharmaceutical products into France shall be based on a system of equitable reciprocity. The exportation of this class of goods shall not be annihilated in the interest of furthering the exports of other classes of Belgian goods, that is to say, chemical and pharmaceutical products are to form a special category, thus abolishing the existing system of securing the balance of interchange by substituting for the former products supplied by industries which are totally alien to chemistry and to pharmacy.

Consequently, the importation into Belgium of French chemical and pharmaceutical products should either be based on the conditions actually enforced with regard to the entry into France of Belgian products and pharmaceutical preparations, or, inversely, Belgian products are to be admitted into France under the same conditions as obtain with regard to the importation of French products into Belgium.

The French and Belgium Customs tariffs should be simplified and made uniform with regard to the treatment of composite medicaments, by the application of a uniform *ad valorem* duty on products of a similar nature imported into France or into Belgium.

Pharmaceutical preparations and specialities bearing a label indicating the formula of their composition shall be placed in the same category as preparations included in an official pharmacopœia, and shall be admitted into France as well as into Belgium.

The importation of secret remedies will be prohibited, i.e., of preparations bearing no disclosure of their actual composition. This prohibition is imperative in order to safeguard the welfare and health of the public.

It is only under the above conditions that the Belgian chemical and pharmaceutical industries will succeed in attaining that degree of development to which they are entitled, side by side with other national industries.

We have the firm hope that both governments will deal equitably with an industry which has hitherto been so unjustly sacrificed. We also trust that our own Government will not permit our chemical and pharmaceutical industries, much against their will, to remain completely dependent upon foreign countries, and that it will take the necessary steps to ensure that our commercial relations with France shall rest on a foundation of equitable reciprocity, as outlined in the foregoing.

"Liberté, Fraternité, Egalité" is the motto of the French Republic, but the last civic virtue is not recognised when claimed by a foreign pharmaceutical speciality seeking entry into that country, however loudly it may protest that similar products of French origin grace the shelves of the pharmacies of its own homeland. Is the economic weapon of a Customs tariff to be invoked in order to readjust the balance, and secure reciprocity in a question where other than purely economic interests are engaged: the endeavour to promote health and conquer sickness realised in so many pharmaceutical preparations embodying the results of patient investigation and careful observation?

Proprietary Articles Trade Association

THE annual report of the Council, which is to be submitted to the annual meeting of the Proprietary Articles Trade Association on July 20, has been issued. It is stated that this, the twenty-eighth annual report, is presented at a time of acute trade depression, when the heaviest strain is placed upon a voluntary machine for the regulation of prices. It is in such times that the short-sighted and cowardly policy of cutting the prices of proprietary articles makes its strongest appeal to those traders whose falling returns cause them to fear that their own personalities and the quality of the service they render are incapable of retaining public support. The Council desire to place on record their high appreciation of the loyalty and patience with which, saving a few notable exceptions, the present difficulties are being faced by the trade as a whole. Reference is made to the valuable help received from the Retail Pharmacists' Union, and it is stated that owing to the largely increasing deference paid to the Union, the policy of formally reporting to the Union the results of negotiations with manufacturers has been of great effect. The membership for 1921 shows an increase in both the manufacturers' and wholesale sections and a slight drop in the retail section, attributed to the fact that the formation of the Retail Pharmacists' Union necessitated a rearrangement of the dates when subscriptions fell due. The membership of the manufacturers' section at the end of 1921 was 397 and of the wholesale section 58. The arrangements for the taking over of the "Anti-cutting Record" and "Year Book" by the "British and Colonial Pharmacist" is mentioned, the agreement being for three years, subject to the retention by the Proprietary Articles Trade Association of the right to exercise control over the matter published therein. The Association will in this way be relieved from a heavy financial liability. Dealing with the marked increase in "cutting" prices, the report classifies the chief sources of trouble as follows:—

(1) *Co-operative Societies*.—Much anxiety has been occasioned to the Council owing to the attitude adopted by certain co-operative societies. In this connection it has been found that the rule whereby manufacturers were formerly permitted to enter into individual agreements with firms on the stop list has been a source of weakness to the Association. The Council, have, therefore, rescinded this rule, and all manufacturers have been informed that they will be required in future, as a condition of membership of the Association, to supply no firm on the stop list which is not prepared to maintain the correct prices of all articles on the protected list.

(2) *Grocery Trade*.—The inclusion in the protected list of an increasing number of articles of which, quite appropriately, as much, or more, is sold through the grocery as the drug trade, continues to give rise to special difficulties. Such articles are distributed through a much wider channel of wholesalers, many of whom are unaware of the working of the P.A.T.A., and little interested in its welfare. The negotiations with manufacturers and prominent members of both the wholesale and retail sections of the grocery trade have been of a most amicable and sympathetic character, but have not resulted as yet in a definite working arrangement which effectively controls that trade. In the absence of such an agreement there is the possibility of a decision having to be taken as to the wisdom of including in the Association's list articles the distribution of which is beyond the control of the P.A.T.A.'s existing organisation.

(3) *Street Traders*.—Although only a slight diminution is, as yet, apparent in the volume of trade done by stall-holders, there is evidence that the supplies of surplus canteen and other stocks are now becoming exhausted, and that in consequence an improvement in this matter may be looked for. It is probable that no completely effectual remedy exists for this evil since, however closely supplies are controlled, there remains a certain quantity of second-hand or salvage stock for which a ready market can be found amongst stall-holders. As regards new stock, the remedy is being sought in the marking of various toilet articles, in such a way that the source of supply can be traced.

The report concludes with a reference to the death of Mr. Wm. Lane, of James Woolley, Sons & Co., Ltd.,

and the resignation from the wholesale section of Evans, Sons, Lescher & Webb, Ltd., who were represented by Mr. J. McCaig.

FINANCIAL STATEMENT

It has been necessary to draw upon the deposit funds to balance the accounts for 1921, owing to abnormal expenditure upon printing and stationery, which will not recur. The subscriptions (£6,050 9s. 6d.) received were as follows:—Honorary, £10 10s.; manufacturers' section, £2,830 6s.; wholesale, £617 16s.; retail, £2,591 17s. 6d.; donations and dividends were £241 9s. 1d. On the expenditure the chief items are:—Salaries, £2,608 5s. 11d.; "Anti-cutting Record," £823 5s. 2d.; purchases, £203 0s. 5d.; postage, £301 19s. 2d.; rent, £585 10s. 10d.; travelling expenses, £177 3s. 6d.; printing and stationery, £531 6s. 1d.; "Year Book," £466 8s. 3d.; Councillors' fares and expenses, £716 15s. 10d.; advertisements, £197 3s.; propaganda expenses, £115 14s. 8d.; furniture, £148 5s. 4d. The year 1921 began with a cash and bank balance of £1,221 19s. 9d., and finished with a balance of £393 19s. 2d.

British Pharmaceutical Conference

Application for Tickets

Mr. E. C. Carr, local secretary of the British Pharmaceutical Conference, 21 Low Row, Nottingham, writes:

Will you allow me the privilege of using your columns to impress upon all intending visitors the necessity for early application for tickets for the forthcoming visit of the British Pharmaceutical Conference to Nottingham? It is hardly necessary for me to point out how difficult it is to make arrangements for a large number of visitors, many of whom do not intimate their intention of being present until the eleventh hour, and I shall be delighted to be inundated with applications during the next few days. Any member of the Conference who is in doubt or difficulty about hotel accommodation may have it solved at once by writing.

Some Conference Committees

THE following are some of the numerous committees appointed at Nottingham in connection with the organisation of the forthcoming Conference:

LOCAL COMMITTEE

Chairman, Mr. F. Ross Sergeant; *Treasurers*, Mr. H. P. Middleton and Mr. G. F. Godson; *Secretary*, Mr. E. C. Carr, 21 Long Row, Nottingham. *Members*:

Mr. A. Eberlin, J.P.	Mr. J. C. Jinks, M.C.,
Mr. A. E. Beilby.	Ph.C.
Mr. E. S. Waring.	Mr. J. A. Hickson.
Mr. C. H. Warmer, M.D.,	Mr. A. R. Jesson.
B.Sc., F.I.S.	

EXCURSIONS COMMITTEE

Mr. S. H. Plattin,	Mr. J. W. Sampson, Ph.C.,
F.S.M.C. (<i>Chairman</i>).	F.C.S.
Mr. J. R. Ball.	Mr. E. W. Whitchurch.
Mr. E. Dales, Ph.C.	Mr. W. Frost Wood,
Mr. H. H. Green.	F.S.M.C.
Mr. W. Holland.	Mr. B. Adams.
Mr. H. Jackson.	Mr. L. Priestley, Ph.C.
Mr. H. O. Meek, Ph.C.	Mr. E. H. Turtton (<i>Secretary</i>).
Mr. A. Norweb.	

LADIES' ENTERTAINMENTS COMMITTEE

Mrs. T. Roberts (<i>Chairman</i>).	Mrs. H. P. Middleton.
Mrs. Carr.	Mrs. Parkes.
Mrs. Ellis.	Mrs. A. Roberts.
Mrs. Godson.	Mrs. Stanley.
Miss Godson.	Mrs. Whitchurch.
Mrs. Jackson.	Mrs. Frost Wood.
	Mrs. Reynolds (<i>Secretary</i>).

Chairman of Ladies' General Committee, Mrs. F. Ross Sergeant; *Secretary*, Mr. A. E. Beilby.

Safeguarding Industries

Glass Bottle Inquiry

The Committee which is conducting an inquiry into the effect of foreign competition on the glass bottle trade sat again on Tuesday, June 20. The previous proceedings were reported in the *C. & D.* of May 20 (p. 64), May 27 (p. 71), and June 10 (p. 58). Mr. C. A. Russell was in the chair. A number of witnesses were called, all in opposition to any proposals to impose a duty.

MR. LANG GIVES EVIDENCE

The first witness was Mr. F. R. LANG, the proprietor of Jules Lang & Son, glass-bottle importers. He said he had a factory at Eu, in France. This was working, but he had not exploited it for the last eight years. He had also a factory at Acton for the making of scientific glassware, but this he had given up because he could not make it pay. So far as importing and distributing were concerned, his firm handled glass bottles, excluding beer and wine bottles.

As to the proposed imposition of a duty of 33½ per cent. in glass bottles from Germany and Holland, witness said he took it the Committee were not concerned so much with the conditions of some months ago as with those of to-day, and the probable conditions of the near future. Up to October 30, 1921, all the orders given to German manufacturers had been executed in marks, but after that date they had to buy in sterling; and it could be safely said that no goods could be exported from Germany to-day without being paid for in sterling. Besides this, the German Government only allowed the goods to be sold at certain prices; and he had known several cases where manufacturers had accepted orders, and yet when they asked for export licences the German Government had refused to grant them. The witness gave evidence of cases where orders had been given to German firms, and great delay experienced in getting delivery, and then only at an advance in price. As to a parallel of English and German prices, he said the foreign exchange had not necessarily a material influence on this. Before the war, when the exchange question did not arise, German prices were lower than normal English prices. Many descriptions of bottles were not then made in this country at all, or only in negligible quantities. It was not true, as had been suggested, that factories in Germany were now working at full power. There were not as many factories or workmen working now as before the war, because so many men had been killed during the war. His opinion was that the reason some large English manufacturers were not able to compete with German manufacturers was because the English works were overcapitalised. During the war English glass works had been bought irrespective of price, companies floated and shares run up to an impossible figure. To-day the public, having lost its money, was not interested in putting fresh capital into glass works. Conditions in Germany were very difficult at the present time for the German manufacturer, who was continually having to give his workpeople advances. These were made retrospective, and the moment could not be very far off when Germany would come to the breaking-point. Manufacturing was fifty times dearer there than pre-war.

Comparing prices, witness said that Mr. Redfern had given the price from a member of the English and Scottish Glass Bottle Manufacturers' Association as 11s. 6d. per gross for a 5-oz. flask and 13s. 6d. per gross for a 10-oz. flask. German prices for flasks of the same dimensions were 8s. per gross for the 5-oz. flask and 10s. per gross for the 10-oz. flask, in each case f.o.b. Hamburg; but on each of these prices carriage had to be added, which entirely nullified the difference.

PERFUMERY BOTTLES

Mr. RALPH P. GOSNELL, of the firm of John Gosnell & Co., Blackfriars Road, S.E., gave evidence from the perfumery manufacturers' point of view. He said the perfumery manufacturers of this country used a considerable number of glass bottles of various kinds, and had always been to a large extent dependent upon imported

bottles, because their requirements had never been catered for adequately in this country. The glass manufacturers who were working for the imposition of the duty stated that they had laid themselves out to effect mass production, but mass production was not consistent with special catering for such a trade as the perfumery trade, because in the sale of perfumery and toilet preparations the purchasers were interested in securing for their goods a wide range of patterns, in order to individualise the productions of various firms. The English bottle manufacturers never had produced, and were not likely to produce in the near future, bottles of the kind mainly required by the perfumery trade. The important consideration was that the production of perfumery manufacturers of this country was largely for overseas markets. Prior to the war quite 75 per cent. was thus disposed of. A very serious handicap would be placed upon the British export trade if difficulties were placed in the way of it securing bottles. The position was already acute, owing to the method of levying spirit taxation in this country, which put British manufacturers at a 16 per cent. disadvantage.

Mr. WILLIAM BENNETT, director of the International Bottle Co., Ltd., Fore Street, E.C., said his firm were merchants and importers of bottles and jars. They imported from America, France, Germany, Holland, Belgium, Czecho-Slovakia, and Japan. In his opinion, the unemployment in this country in the glass trade was not caused by the importation of glass bottles from Germany and Holland, but the reasons were: (1) The general slump which had affected nearly all businesses in the country. (2) The falling-off of exportation. (3) The introduction of automatic and semi-automatic machinery, improved furnaces and lehrs, which dispensed with a great amount of labour; and (4) the fact that most British glassworks were largely over-capitalised, and that, in consequence, their overhead charges were too high.

Mr. J. STANFIELD JONES (Edward & John Burke, Ltd.), carrying on business in Liverpool and Dublin, gave evidence from the point of view of the export beer-bottlers. He said his information was that no bottles had been ordered from the Continent by Liverpool export beer-bottlers during the last twelve months, and only a few had been ordered previously, when supplies were short on the English market. The effect of the depreciated exchange in enabling the German manufacturer to undersell British manufacturers was offset by the increase in Germany in the cost of production. In actual fact the lowest prices so far quoted to the export beer-bottlers were not those of manufacturers in Holland or Germany, but those of British manufacturers outside the Association of Glass Bottle Manufacturers. Witness produced a letter dated July 25, 1921, in which the British Association of Glass Manufacturers wrote to the German Association stating that the price for most classes of bottles had to be temporarily withdrawn, in view of the competition of British firms outside the combine. Prior to this letter the prices of bottles quoted by German manufacturers had been in strict accordance with the prices quoted by the British Association.

Mr. SYDNEY CHARLES MITCHELL, of the Waterloo Bottling Company—bottlers of wines and spirits to the trade and bottle merchants—stated that his firm was unable to obtain from English manufacturers wine bottles such as burgundy, claret, and kindred bottles used for the bottling of French wines. The English workman had never satisfactorily been able to produce bottles of this kind. In like manner, with regard to the bottles for port wine, the British manufacturer was not in this case able to make the colour required.

BOTTLES FOR FOOD, ETC.

Among other witnesses called were Mr. G. P. SHIPPAM, Chairman of C. Shippam, Ltd., Chichester, packers of meat and fish paste, etc.; in glass, Mr. F. A. BOVILL, pickle and sauce manufacturer, and Mr. LAWRENCE PASCALL, director of James Pascall, Ltd., London, manufacturing confectioners. These three witnesses were called by the Food Manufacturers' Federation.

Mr. SHIPPAM said that he knew of no English firm making soup bottles that would give true closure in sterilising, nor of any English firm making satisfactory tongue and brawn moulds.

Mr. BOVILL said that twelve months ago the high cost of materials—bottles more especially—and labour had made pickles unsaleable. Pickle manufacturers were now getting bottles cheaper than those of the United Bottle Manufacturers, Ltd., but these bottles were not coming from abroad, but from makers in London. Unless they could get bottles of good quality to make goods like tomato ketchup, etc., look attractive, America would get the whole of the business.

Mr. LAWRENCE PASCALL said that his firm used various kinds of jars and bottles, in which were packed sweets of different kinds. The sales of sweets depended to a certain extent on their very bright and attractive appearance, and this was particularly so in export markets. Speaking generally, glass from Germany was whiter and very much clearer than English-made glass. Witness illustrated this point with two 7-lb. show jars, one of English and the other of German manufacture. Another point, he said, was the strength of the jars. These jars were not only sent all over this country, but all over the world, and it had been found that the German jar was stronger. Witness showed also samples of an 8-oz. squat and a 1-oz. kali. On the question of price he said that in some cases the price of the English jars was so much higher than that of the German that if confectionery manufacturers were compelled to use English jars they would be at a very serious disadvantage in their export trade.

WEDNESDAY'S PROCEEDINGS

The Committee finished the hearing of evidence on Wednesday, June 21.

The first witness was Mr. BERTRAM STUART STRAUSS, chairman of Virol, Ltd. He said his company were large consumers of glass bottles, their requirements running into millions during the year. During the war, when there had been no competition, they had made a contract with a firm in Yorkshire for a bottle at 32s. 6d. per gross, but this firm had been unable to supply the demand, and his company had been obliged to pay the "Trust" 47s. 6d. for the same bottle. The fact that those who had been supplying at the lower price renewed their contract during the period that he had to pay 47s. 6d. to the "Trust" was, he considered, evidence that the higher price had not been justified. Recently he had made a contract in this country for many hundreds of thousands of bottles at prices ranging from 11s. per gross to 22s. per gross—the latter price being for bottles of the size for which he had had to pay 47s. 6d. during the period when competition was non-existent. He would prefer to buy his bottles here rather than abroad, but if there was no competition he would have to pay through the nose. His principal reason for desiring to support home industry was that there was less risk of delay in delivery and more certainty of attention than was the case when dealing through an agent with principals abroad. In his opinion, the unemployment in the bottle industry to-day was owing to the general depression of trade, and only to a very small extent to foreign competition. The depression of the foreign exchange did not help the foreigner to the extent that was imagined, for at the present moment one could only get quotations from Germany in sterling. If the home industry at the present moment was in a bad condition, this was because of watered capital, inadequate management, and want of proper supervision.

REDUCED DEMAND FOR BOTTLES

Mr. WM. HARRISON WOODWARD said he was chairman and managing director of William Woodward (1920), Ltd., manufacturing druggists, and also chairman of the Owners of Proprietary Articles Section of the London Chamber of Commerce. Combating the complainants' case, he said that the import of German and Dutch-made bottles was on the decline, and likely to be much reduced by the great rise in the cost of production. The complainants laid wholly insufficient stress upon the reduced demand for bottles of all kinds and of whatever origin in the United Kingdom. Firms who were customers for bottles, largely for the purposes of their export trade, had reduced their requirements for such trade by proportions reaching in certain cases as much as 80 per cent., and few manufacturing firms in the United Kingdom

could claim that their home trade in bottled goods was equal to what it had been in 1920.

Speaking on another point, the witness said it was of prime importance to note that the prices charged by glass manufacturers working under the Owens patents were determined to-day by the costs of small producers working on old-fashioned and obsolete plants. Buyers of bottles were justified in asking why the enormous reduction in labour costs should not have its inevitable economic effect in affording a range of selling prices corresponding with such reduction in costs. Of the three essential factors of bottle production—namely, labour, coal, and materials—the consumers were entitled to ask for very definite evidence as to the relative proportion of each of these in determining current prices, and it ought to be shown how these production costs were arrived at (a) in the case of bottles made by Owens, (b) in the case of those produced by smaller machines, and (c) in the case of those produced by hand industries. Where prices were quoted as between British costs and German selling prices, it was essential that we should be assured that those figures were arrived at on an identical basis in each case, and of this there was no evidence. It would be quite easy to quote a range of production costs arrived at from the books of a small hand-made bottle factory which would show a startling contrast to a German price for similar goods produced in large bulk and of a uniform type by a German factory running modern machinery. The imposition of a moderate duty upon bottles entering this country from Germany and Holland would not be limited in effect to the price of such imported bottles. It was an invariable experience that protective duties increased the price of the competitive home product. The glass-bottle manufacture with protection behind it would become with certainty a gigantic organised Trust.

Mr. A. F. GRAESSER, director of the Wrexham Lager Beer Co., Wrexham and Liverpool, said his firm were brewers, bottlers, and exporters of lager beer. As such they were in direct competition with German products, and were continually getting letters from their friends abroad pressing them to take all possible steps to reduce prices. Taking the case of Apollinaris quart bottles, which was the package most in demand for their beer, and assuming that they paid, as at present, 31s. a gross for the containers, the imposition of the proposed duty would result in an increase to them of approximately 10s. 4d. per gross.

BOTTLES FOR PASTEURISATION

Speaking of the quality of the bottles, the witness said that up to the present time his firm had never found an English bottle manufacturer able to supply them with a quart bottle which would stand pasteurising; and they had not found an English maker who was prepared to make good all their loss in the pasteurising process, which loss added very considerably to the cost of the beer. Both German and Dutch manufacturers were able to produce a bottle suitable for pasteurisation, and guaranteed to make good all loss over, say, 5 per cent. in quarts and 3 per cent. in pints. His firm had had experiments carried out at their bottling stores in Liverpool. These experiments had been carried out by a prominent firm in the "Combine," and had been for testing bottles which that firm considered should be in every way suitable for pasteurisation purposes. The last test made in this way had resulted in a 27 per cent. loss. There were firms in this country outside the "Combine" who quoted to-day for quart bottles at the same price as his firm paid for the bottles manufactured abroad. His firm was not compelled to go to the foreigner on account of the cheapness of the bottles, but purely and simply because of the heavy breakage that occurred with the English bottles. Business for them would be quite impossible if they had to buy their bottles in England. Witness also submitted some statistics as to the proportion of alcohol and of malt extract contained in lager as compared with other forms of beer, his argument being that lager was a very much more wholesome beverage, and that its consumption should be encouraged by the Government.

Mr. ALEXANDER HERBERT PIRIE, director and manager of E. & T. Pink, Ltd., said that his company was a

large user of glass jars and bottles, and practically all they used were of English make. They had no complaint to make as to the quality of these bottles. Their experience showed that bottles might be bought at the following figures:

Prices average.	Combine.	Outside Combine.	Foreign.
1-lb. jam	14/6	15/6	14/-
2-lb. „	23/-	20/6	21/-

He was informed that one large manufacturer was buying very superior foreign-made glass at the low figure of 11s. 6d. to 12s. 6d. per gross for 1 lb. and 17s. 6d. to 18s. per gross for 2 lb. This manufacturer said that he could not buy a similar article of near the quality in English make for less than 13s. 6d. per gross for 1 lb. and 23s. per gross for 2 lb. This would make a difference in the selling price of jam of about $\frac{1}{4}$ d. per lb. The result of a duty of 33 $\frac{1}{3}$ per cent. on foreign containers would inevitably increase the price of all containers by an approximately equal amount, and the jam trade, which found employment for a larger number of hands than did the glass-bottle industry, would be most seriously affected. The prosperity of fruit growers largely depended on the jam industry, and jam had a high food value, entering largely into the dietary of the poorer classes, particularly children. The high price of food and sugar had kept jam at a price approximately 200 per cent. above its pre-war price. Last season fruit had been particularly scarce and dear, owing to the drought, and this year the prospect had not improved. Manufacturers had cut their profits to the very minimum. They could not afford to pay more for their containers, and any attempt to pass on the increase of cost to the consumer would, in his opinion, result in decreased sales. He estimated that if containers were increased in price to the extent of 33 $\frac{1}{3}$ per cent. it would be necessary for the public to pay from $\frac{1}{4}$ d. to $\frac{1}{2}$ d. per lb. more for its jam. This would mean another tax upon food at a time when the Government was endeavouring to decrease the cost of living, and would, moreover, hamper the industry's attempt to revive its export trade. Last year our total exports of jam had amounted to only 41,000 cwt., against 183,000 cwt. in 1913.

Mr. WM. B. ALEXANDER, managing director of J. & S. Alexander, Ltd., gave evidence from the point of view of the packers of ox and other tongues, brawn, galantines, and other table delicacies in tin and glass. He said that during 1917 and 1918 he had been acting for the Ministry of Munitions (Glassware Supply), and had endeavoured to get English glass-makers to provide for the requirements of the meat-packers. In this endeavour he had completely failed. He did not think the proposed duty would have the effect of inducing packers to purchase English meat glasses, as from past experience it would be better for them to pay the increase due to the duty, rather than have the waste of their raw material entailed by the much heavier breakage in the sterilising of English glass.

Subsequently other witnesses were heard in support of the application for the imposition of the duty. These were: Mr. G. BELLCHAMBERS, glass-bottle manufacturer, Highbury; and Mr. GEORGE E. ALEXANDER, secretary of the Association of Glass Bottle Manufacturers of Great Britain and Ireland.

The Committee adjourned until Thursday, June 29.

Optical Goods Inquiry

Giving evidence before the Committee dealing with optical instruments under Part II. of the Safeguarding of Industries Act on June 19, Major A. G. CHURCH, D.S.O., general secretary of the National Union of Scientific Workers, a society composed of qualified persons engaged in professional and other teaching posts at Universities higher technical institutions, in Government research and technical work, and in industry, said that owing to information supplied by professors of science and medicine in various Universities, letters had been sent to the Press from such eminent representatives of science as Sir Clifford Allbutt, Sir Ernest Rutherford, Sir Germain Sims Woodhead, Dr. H. E. Armstrong, and Lord Rayleigh, voicing a general complaint that the effect

of the Safeguarding of Industries Act, the Dyestuffs Importation Act, and the German Reparation (Recovery) Act, had been to increase the costs of research, to delay research, and in some cases to prevent research, and, generally, to restrict the laboratory work of science and medical students in training. The National Union of Scientific Workers and the British Medical Association appointed a joint committee to investigate the complaints already received, to collect further evidence, and to take such action as was deemed desirable to remove the disabilities under which research and other teaching institutions laboured. This joint committee decided to circulate all heads of scientific institutions and medical schools, asking for detailed information under the five following headings, which were based on the complaints already received: (1) The difficulties experienced in obtaining British materials and laboratory ware of the requisite quality and quantity. (2) The difficulties experienced in obtaining British scientific instruments. (3) Detailed particulars of instances where difficulties and delays have been experienced through the action of Customs authorities, in obtaining consignments from abroad. (N.B.—Indicating from which countries the greater bulk of the goods are obtained.) (4) The increase in the running costs of laboratories which can be directly attributed to the operation of the Act. (5) Details of cases where researches have been hindered or had to be definitely abandoned, owing to the difficulties of obtaining materials from abroad or their excessive cost in this country. A further request was made that any information regarding special concessions by the Board of Trade in the way of facilities for obtaining articles scheduled under the Act with the least possible delay should also be given.

RESEARCH TOO COSTLY

A large number of replies had been received, and the general tenor of them is as follows: (1) *Glassware, etc.*—Supply and quality has improved, but much of it is still imperfect. Porcelain ware often explodes when heated. Glass apparatus is not properly annealed, not uniform in character, and often the wrong shape. Large Dewar vessels, which are urgently required, are unobtainable in this country. Large separating funnels also unobtainable. (2) *British Scientific Instruments.*—No great difficulty experienced in obtaining the commoner types of instruments, such as microscopes, balances, electrical instruments, etc., though quality not uniform. Great difficulty in obtaining the more uncommon instruments for special purposes—e.g., polarimeters, polariscopes. (3) *Customs Delays, etc.*—Very considerable delays experienced. From one to two months is the usual time quoted by which goods have been held up in this country after arrival. So great is the uncertainty in release from the Customs that valuable time is being spent on preparing small quantities of raw research material, which would otherwise be spent on the research itself. Filling up forms in duplicate at the General Post Office for small parcels of goods. Also the queue habit at the General Post Office. (4) *Increase of Cost.*—Difficult to give figures of increased running costs directly attributable to the Act. Cost of providing materials, chemicals, apparatus, and instruments has increased seriously, and imposes hardships upon students particularly, whose fees have also been doubled recently. (5) *Some Researches Delayed or Abandoned.*—*St. Bartholomew's Hospital Medical School*: Research on the viscosity of gases delayed twelve months by difficulties under heading (2). Chemical researches delayed owing to difficulties in obtaining chemicals of sufficient purity. *University College*: Research on "alkaloid aconite" abandoned owing to excessively increased cost. *Birkbeck College*: Research abandoned or delayed, owing to cost of hydroxylamine hydrochloride, and difficulty in obtaining chloro-, bromo-, and nitrobenzaldehydes. *Rothamsted Experimental Station*: Research involving use of special apparatus for microchemical analysis abandoned, owing to vastly increased cost. *Engineering Laboratory, Oxford*: Research for Food Investigation Board delayed six months by difficulty in getting large Dewar vacuum flask. *Royal Holloway College*: Practically all research greatly hindered by necessity of preparing compounds which could formerly be bought, and

the import of materials takes so long that generally it is impracticable to wait for their arrival. It is estimated that research students spend one-third to half of their time preparing compounds which could formerly be bought. *Finsbury Technical College*: Certain research work indefinitely hindered because a spectograph has had to be made—a long process—in view of their high cost. *University College, Dundee*: Chemical research abandoned, owing to increased cost. *Royal Technical College, Glasgow*: Certain organic chemicals which are obtained through British firms have been found to be impure. In great majority of cases must go abroad for them, and this hampers work, owing to Customs delays. *Victoria University of Manchester, Medical Faculty*: Expenses attending some of the research work limited amount of work done.

The above summary showed conclusively, said Major Church, that research and teaching institutions considered that they are being badly treated under the Act. From the general trend of the opinions expressed it was quite clear that the Act is hampering research by increasing costs, causing time to be wasted on preparation of materials which would more profitably be spent on research, and causing work to be spoilt owing to the restrictions put upon importation of glass and other laboratory ware of the requisite standard of quality.

It must be noted also that research is being hampered in other ways. The University Grants Committee had had to reduce the annual grants to Universities from £1,500,000 to £1,200,000. The Department of Scientific and Industrial Research was also curtailing grants for individual research workers. And the Universities have fallen in with the suggestion made by Mr. Austen Chamberlain when he was Chancellor of the Exchequer that they should raise the fees to students. The effect of these measures alone would be to reduce the numbers of science students and to restrict research activities. The cost of materials fell largely upon the individual research workers, and the more enterprising the research worker the more he would pay, although his work was directed towards increasing this country's store of knowledge, not his own immediate material advantage. It was not claimed that key industries should not be fostered, but merely that the Safeguarding of Industries Act, as it was present framed and being operated, was hindering and hampering those very activities of the nation which were vital to its industrial supremacy and its security. The Act had been characterised as a "nasty German device for ruining British industry." Both the British Cellulose Company and the British Dyestuffs Corporation afforded examples of the effect of fostering and speeding up development before the essential research had been done. Development must wait upon research, for it was upon scientific discovery and research that industries were built up. Before the offending Act was passed an inquiry might well have been made as to the efforts which had been made in "key industries to introduce scientific methods based upon the work of British scientific researchers." It was claimed that British scientific workers are being penalised by the granting of monopolies to firms or corporations which have taken no adequate steps to place their industry on a proper scientific footing by employing the best scientific brains of the country.

REFEREE'S DECISIONS

Scientific Glassware

MR. CYRIL ATKINSON, K.C., the Referee under Part I. of the Safeguarding of Industries Act, gave his decision, on June 12, in regard to the complaint that under the general heading of "Scientific Glassware," reagent bottles, hydrometer jars, museum jars, specimen jars, surgical jars, cylindrical measures (bell shaped), and conical measures have been improperly included in the list of dutiable articles issued by the Board of Trade. The hearing was fully reported in our issue of June 10 (p. 61). The decision is as follows:

In my opinion the question whether the descriptions complained of are properly included in the list of dutiable articles depends upon the meaning of the words used. I

am satisfied that all the descriptions complained of are properly included in the list provided that these descriptions are used strictly and within the limits which are defined in this award.

REAGENT BOTTLES.

Reagent bottles are properly in the list provided that by the expression, 'Reagent Bottle,' is meant a bottle which is reasonably fit for containing chemical reagents.

The legal obligation implied on the sale of such bottles is that the bottle shall be reasonably fit for containing any ordinary chemical reagent, not fit for just a few, but fit for any chemical reagent, except possibly some exceptional substance calling for special and exceptional qualities in its container.

This obligation means that the bottle must be made of hard suitable glass free from lead. By 'free' I mean containing no more than such a trace as does not matter. The neck and stopper must be ground so as to make a perfectly air-tight joint.

If a bottle does not fulfil these requirements, it is not suitable for containing chemical reagents, and is not scientific glassware.

I gather that the distinctive shapes of reagent bottles have been copied, and that the description has been applied to inferior bottles, and that these practices have led to trouble with the Customs. That trouble is not for me to deal with. A hydrometer jar means a jar suitable for hydrometer tests. It is of distinctive type, straight sided of circular or elliptical section from 6 to 10 inches high. The glass must be good and very clear. The jar must be a very good cylinder and must be capable of standing rapid changes of temperature.

MUSEUM JARS, SPECIMEN JARS AND SURGICAL JARS.

It is very possible that there is a practical difficulty in the case of these jars, because the customary shape and description have been borrowed for all sorts of purposes, which are not scientific and do not require scientific glassware. Any jar which is suitable for containing and displaying scientific specimens, not just a few specimens, but any scientific specimens not calling for exceptional treatment is a museum or specimen jar.

All three jars require the same qualities, i.e., they must have clear fronts so that there is no distortion caused by the glass. The edges must be ground very flat and true so that the glass plate laid on them will give an air-tight fit and prevent evaporation. The glass must be sufficiently well made to prevent contamination of the liquid, if any, containing the specimen.

CYLINDRICAL MEASURES (BELL-SHAPED) AND CONICAL MEASURES.

I think that these measures are on the border line, and that the only articles of these descriptions which can properly be considered as scientific glassware are measures which are, in fact, graduated with scientific accuracy. It is the correct graduation which, according to the evidence, makes them scientific glassware.

"I award that the descriptions complained of are properly included in the list if and when defined within the limits I have laid down. The complaint therefore fails."

Boric Acid

My Cyril Atkinson, K.C., gave his decision, on June 20, in regard to the complaint that boric acid had been improperly included in the list of articles issued by the Board of Trade as chargeable with duty under the Safeguarding of Industries Act. The hearing was fully reported in the CHEMIST AND DRUGGIST, of June 3 (p. 53). The Referee, whose award is given below, decided that boric acid should not be included in the list of dutiable articles.

I have said in previous cases that *prima facie* a substance is not dutiable on importation into this country, and that it becomes dutiable under the Act in question only if there is no reasonable doubt about its being covered by the words in the schedule.

The complainants base their case against the inclusion of boric acid in the list of dutiable substances upon trade usage. They contend that there has been such a general classification or acceptance of boric acid as a heavy chemical, as to make further consideration unnecessary and irrelevant. The evidence stands thus. Four chemical merchants of experience say that they have always regarded boric acid as a heavy chemical, three of them go further and say that it has always been treated and regarded in the trade as a heavy chemical. Mr. Parry said the same thing. Mr. Johnson, the sales manager of Borax Consolidated, controls and sells 85 per cent. of the boric acid sold in this country. Surely he, if anyone, must be familiar with the trade view. Until a few weeks' ago, before certain pressure was put upon him, his view was that boric acid could in no sense be regarded as a fine chemical.

On the other hand, five or six witnesses were called who expressed the opinion that boric acid was a fine chemical, but not one of them said that it had been so classified or treated by the trade.

The witnesses for the complainants are supported by the evidence to be derived from trade journals. It is, in my opinion, established that trade literature has consistently referred to boric acid as a heavy chemical. I am not forgetting that it appears in lists of pharmaceutical chemicals, but that fact is almost colourless.

Further, the report issued by the Department of Overseas Trade on the market for heavy chemicals in the Argentine Republic, deals with boric acid as a heavy chemical.

I am satisfied and find as a fact that boric acid has not been generally regarded as a fine chemical in the trade. The Complainants further rely upon the following contentions:—

- (a) That the scale of manufacture is undoubtedly large for a fine chemical. This was emphasised by Borax Consolidated in their abandoned complaint.
- (b) That about one-fifth of the boric acid consumed in this country comes from Italy, and that whatever may be said of the difficulty of manufacture here, the method of production there certainly does not tend to stamp boric acid as a fine chemical.

Although criticised at a later stage the evidence of Mr. Funajoli was not seriously challenged in cross-examination. It certainly satisfied me that the production in Italy is simple and does not require that skill and expert supervision which is usually associated with the fine chemical production.

Now what is there to displace this strong *prima facie* case for establishing that boric acid ought not to be included in the list as a fine chemical?

The Board of Trade put in a counter statement prepared with its usual care and lucidity.

The ground relied upon as justifying the inclusion of boric acid in the list is that 80 per cent. of the total consumption in this country is absorbed for medicinal and surgical purposes, and that a considerable quantity is used for food preservation purposes, and only insignificant amounts in the industries.

It is clear that the Board has been misinformed as to the facts.

I accept the evidence of Mr. Johnson that 43 per cent. is used for medicinal and surgical purposes, including lint, 34 per cent. for food purposes, and 23 per cent. for industrial purposes. Even these figures establish that over three-fourths of the consumption of boric acid is for purposes requiring a high degree of purity.

At the hearing the opponents relied also upon the method of manufacture in England, contending that it required that skilled supervision which is one of the indications that the product is a fine chemical.

I cannot say that I am at all convinced by the evidence on this point. Dr. Bassett certainly said that the operations to prepare boric acid were extremely complex and required very careful supervision, but when asked what part of the operation was complex, he answered that one stage might reasonably be called complex, the stage where

arsenic was removed. Now curiously enough Mr. Derring, who actually supervises the manufacture, made light of that and said that the removal of arsenic was very simple.

On this point of difficulty I cannot forget the first complaint of Borax Consolidated. That complaint states that the method of production is one of the simplest operations, and does not require chemical supervision. I cannot believe that steps such as the formulating and lodging of that complaint were taken without careful consideration. I asked Mr. Johnson if he had made the complaint on his own authority. His answer was: "I did and I did not." I do not know what that means, but he admitted that the managing director was consulted, and I do not believe that the statement did not represent the view of those responsible for it at the time. Having carefully considered the evidence given, and bearing in mind the fact that difficulty of manufacture was not put forward by the Board of Trade in its statement, and the attitude first taken up by Borax Consolidated, the conclusion I come to on the method of manufacture is that it does not help to weight the scales in favour of boric acid being a fine chemical.

There remains, however, the very formidable point I have indicated, viz., the fact that three-fourths of the consumption is for medicinal and food purposes demanding considerable purity as a matter of vital importance. Ought this to outweigh the trade classification or usage? I think not. If I could persuade myself that the attainment of the necessary purity required the skilled labour and constant supervision by trained chemists demanded by fine chemical production I might take a different view. Dr. Bassett put the matter admirably, but I am not persuaded as to the complexity of the operation. He has not seen it, and I repeat it is curious that the complexity he singles out should be described as simple by Mr. Derring. The complainants had no notice that the question of difficulty of production was to be raised. They came quite unprepared to deal with it. The opponents cannot, therefore, complain if the evidence they adduce is regarded somewhat critically.

On the whole, I think that boric acid is not a fine chemical within the Act, but whether I am right or wrong about that, I am quite satisfied that the position of boric acid is at least so doubtful that it ought not to be included in the list of dutiable substances, and I award that it be removed.

College Notes

BOTANY RAMBLE

STUDENTS at the Bath and West of England College of Pharmacy recently took part in a ramble and picnic in the neighbourhood of Southstoke, Monkton Comb, and Limply Stoke. A quantity of botanical material was collected and discussed. At the last-mentioned place the party was entertained to tea by the principal, Mr. D. J. Williams, Ph.C., F.C.S.

LEEDS COLLEGE OF PHARMACY

THE closing meeting of the "Altior" Students' Society was held on June 17, when a paper, entitled "An Army's Drinking Water," was given by Mr. J. Ogden. The lecturer, who during the war served in the water-tank corps of the Royal Engineers, outlined the various processes which were employed for the purification of drinking-water for the troops, laying stress on the difficulties which had to be overcome during the "pushes," when large drafts of troops were brought into the line and concentrated at various points. After a vote of thanks had been accorded to Mr. Ogden, the secretary (Mr. Dobson) read the report for the past session, which was voted to have been a great success.

BRAZILIAN CENTENARY EXHIBITION.—A model and the interior decorations of the British pavilion to be erected at the Brazilian Centenary Exhibition of next September (*C. & D.*, January 21, p. 39) were exhibited in London on June 21 to 23 inclusive. The pavilion is the joint gift of the British Government and a special committee.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, June 29.

It cannot be said that business shows any general improvement so far as Mincing Lane produce is concerned, as it continues difficult to create interest in forward contracts, which are the mainstay of the markets. Star anise oil has attracted much more interest this week, and several hundred cases have changed hands at advancing prices. American peppermint oil is also firmer on the receipt of New York cables quoting higher prices. Clove oil is likely to be cheaper should the anticipated good Zanzibar crop of cloves materialise. Gum acacia, hydrastis, and huchu are firmer. Senega is cheaper, and business is being done in new crop to arrive at substantially below spot prices. Menthol and Japanese camphor are steady. Ergot is still firmly held. Seeds are all unchanged and mostly inactive. Cod-liver oil is cheaper. Turpentine has wildly fluctuated in the interval, and is dearer on balance. Shellac is quiet, and prices are easier.

Higher	Firmer	Easier	Lower
Anise oil (star)	Acetone	Cassia oil	Citronella oil
Hempseed	Antimony	Cresote oil	(e.i.f.)
Mace	(crude)	Shellac	Clove oil
Peppermint oil	Buchu	Sodium	Cod liver oil
(Amer.)	Cresylic acid	bichromate	Lemon oil
Saffron	Gum acacia		Opium (e.i.f.)
Turpentine	Hydrastis		Petroleum jellies
	Formaldehyde		Potash sulpho-
	Lubricating oils		guaiaecolate
	Mint oil (Jp.)		Senega
	Palm kernel oil		Soda caustic
	Pitch		(makers')
			White oils

Cablegrams

NEW YORK, June 21.—Business is fair. Curaçao aloes in cases is lower at 6c. per lb. Cartagena ipecacuanha has been reduced to \$1.50, and balsam Peru to \$1.75 per lb. Formaldehyde (40 per cent. by volume) is cheaper at 8c. per lb., and vanillin is lower at 48c. per oz. Peppermint oil in tins is dearer at \$1.90 per lb., and short buchu leaves have advanced to \$1.05 per lb.

NEW YORK, June 27.—Business is quiet. Mexican sarsaparilla is cheaper at 38c., and podophyllum root has been reduced to 11c. per lb. Belladonna root is also cheaper at 11c. Mercury is lower at \$55 per flask. Cartagena ipecacuanha has advanced to \$1.58 per lb.

BERGEN, June 22.—The total catch of cod for the whole of Norway since the opening of the season amounts to 47,500,000, against 38,800,000 for the corresponding week of last year, and the yield of steam-refined medicinal oil is 78,436 hectolitres, against 56,950 hectolitres for the same period of 1921. The market for finest new non-freezing medicinal oil is nominal at from 95s. to 96s. per barrel c.i.f. U.K. ports.

BERGEN, June 23.—The total catch of cod for the whole of Norway since the opening of the season amounts to 47,900,000, against 39,000,000 for the corresponding week of last year, and the yield of steam-refined medicinal oil is 79,313 hectolitres, against 57,328 hectolitres for the same period of 1921. The market for finest new non-freezing medicinal oil is quiet and lower at 95s. per barrel c.i.f. U.K. ports.

Crude Drugs, etc.

AGAR AGAR is steady. No. 1 Japanese on the spot offering at 4s. 3d. per lb., and to arrive at 4s. 2d. c.i.f. No. 2 on the spot is 3s. 11d., and to arrive 3s. 10d. c.i.f.

The exports from Japan during March amounted to 249,859 kin, valued at 388,466 yen. During the three months ended March 31 they were as follows:—

		1920	1921	1922
Kin ..	..	346,035	392,941	509,636
Yen ..	..	536,451	456,910	752,948

ANTIMONY.—Foreign regulus keeps steady, with a fair demand, spot lots being held for about £24 10s., but business is possible at under this. English refined ordinary ranges from £27 to £29 5s., according to quantity. Sellers' ideas for crude are somewhat stiffer at £14 10s. c.i.f. The American duty, according to the present schedule, is expected to be 2c. per lb., against the present ad valorem of 10 per cent., but the opinion is expressed that the duty is hardly likely to be enforced until after the autumn.

BALSAM CANADA of good quality is quoted at from 5s. 9d. to 6s. per lb.

BUCHU.—All the cheap lots having been disposed of prices are tending higher at from 3s. 3d. to 3s. 6d. per lb. for good round green on the spot. The spot stocks in U.S. are light, and an advance of 6d. per lb. is regarded as possible.

BURDOCK ROOT.—Fair quality Belgian cut of new crop is offered at 80s. per cwt.

CAMPHOR (CRUDE).—The spot value is 3s. 6d. per lb., and for June-August shipment 3s. 1½d. c.i.f. is quoted.

CAMPHOR (REFINED).—Japanese 2½-lb. slabs are quiet with spot sellers at 3s. 6d. per lb., and for June-July shipment business has been done at 3s. 5d. c.i.f.

The exports from Japan during March amounted to 2,891 piculs, valued at 621,892 yen. During the three months ended March 31 they were as follows:—

To	1920 Piculs	1921 Piculs	1922 Piculs
British India ..	2,105	133	306
Great Britain ..	524	225	1,000
France ..	117	3	622
United States ..	489	557	4,314
Australia ..	—	70	213
Other Countries ..	211	209	323
Piculs ..	3,446	1,197	6,778
Yen ..	1,898,220	268,717	1,379,329

CANTHARIDES meet with a small demand only, sellers of Chinese asking 4s. 6d. per lb.

CASCARILLA.—Fair quill ex new arrival can be had at 2s. 6d. per lb., and siftings at from 1s. 5d. to 1s. 6d.

CHAMOMILES.—Spot supplies, with the exception of old brown flavourless flowers, appear to be exhausted.

CHAULMUGRA OIL has been in fair demand, and spot stocks have been much reduced. 2s. 10d. per lb. is about the value of the genuine product.

CINCHONA.—At the Amsterdam auction, to be held on July 12, 1,794 packages Java pharmaceutical bark, weighing 105,846 kilos., will be offered, also 14 packages Ceylon, weighing 1,955 kilos.

COD-LIVER OIL.—Our Bergen correspondent writes on June 24 that the cod fishing at Fiumarken will probably be finished in a few days. The result last week was very poor, about 0.3 million cod, with a yield of about 100 hectolitres of oil. The total output of all the Norwegian cod fisheries compared with that of the previous years is as follows:

	Catch of cod	Steam-refined cod-liver oil (hect.)	Livers for crude oil (hect.)
To June 17, 1922 ..	47,500,000	78,436	14,992
" " 18, 1921 ..	38,800,000	56,950	13,078
" " 19, 1920 ..	38,000,000	56,584	6,181
" " 21, 1919 ..	30,183,000	37,612	5,293
" " 20, 1918 ..	24,396,000	20,507	19,851

The market continues without demand, and the price is quite nominal. Owing to the rise in the value of sterling, however, prices in this currency show a reduction, and finest non-freezing steam-refined oil can be had at 91s. to 95s. per barrel c.i.f. In London agents quote the lower figures of from 90s. to 91s. per barrel c.i.f. for finest non-freezing Lofoten oil.

ERGOT is still firmly held, and for good sound Spanish 4s. 2d. per lb. would probably have to be paid; parcels

inclined to go wormy might be had at from 3s. 11d. to 4s. per lb.

GUM ACACIA at the source has still a rising tendency, natural Kordofan offering at 62s. per cwt. c.i.f. London, and cleaned at 64s. Spot prices are slightly less than the foregoing.

HEN-YOLK continues quiet, with spot sales of prime quality Chinese (2 per cent. boric acid) at 130s., and afloat is offered at 120s. c.i.f.; $1\frac{1}{2}$ per cent. is 107s. 6d. for May, 105s. c.i.f. for June, and 97s. 6d. c.i.f. for July-August shipment. Dried yolk is offered at 5 $\frac{1}{2}$ d. per lb., spray whole egg is 9d., and native dried whole is 6d. per lb., all spot. Prime Chinese hen-albumen on spot has been sold at 3s. 5d. per lb., and June-July shipment is 3s. 2d. c.i.f.

HYDRASTIS has become scarcer on the spot, and holders now ask 18s. per lb. New York also reports the drug as being scarce, with practically nothing offering for prompt delivery.

LYCOPodium of treble-sifted quality is offered at 8s. 6d. per kilo.

MENTHOL is steady, with small spot sales of Kobayashi-Suzuki at 24s. per lb., and sellers of July-August shipment at 23s. per lb. c.i.f.

MERCURY.—A moderate quantity of Italian having come in recently rather more of this description has been on offer, mostly at £11 10s. and occasionally a shade less, but the market has kept steady, while Spanish is called £11 15s. per bottle. There is undoubtedly a good deal of the latter waiting to be liquidated in second-hand, but the fact remains that the prices at the mines are well held at 340 pesetas per bottle. It has been rumoured that a "pool" may be formed here to handle Italian mercury, but no reliable information is obtainable. Italian is reported to have been landed in New York recently at \$56 per flask, duty paid. The tendency there is upward, as it is taken for granted that a tariff of 25 cents per lb. will be put into operation on imports. The home demand at this end is quiet, but a steady export business is being done.

NUX VOMICA has a firmer tendency, with Saigon offering at 26s. 6d. per cwt. c.i.f. terms.

PODOPHYLLUM ROOT.—Although the New York price is cheaper at 11 c. per lb., spot holders maintain previous prices of 75s. per cwt.

OPIMUM is weaker at the primary sources owing to a substantial decline in the Turkish rate of exchange, it being now possible to buy 12 per cent., to arrive, at about 11s. to 11s. 3d. per lb. c.i.f. On the other hand the London spot price remains very firm owing to scarcity and the absence of any supplies coming forward on consignment. The spot value of good druggists' is 1s. 1d. per unit.

CONSTANTINOPLE.—June 14.—During the first fortnight of June the sales increased to 75 cases as follows:—65 cases druggists' at 1,130 to 1,150 piastres per oke; 7 cases "softs" at 1,150 piastres; 3 cases Malatia at 1,250 piastres. All the druggists' was bought for Japan. At Smyrna there were sales of 140 cases at 1,100 to 1,175 piastres for European ports. The recent news received concerning the law passed in the United States with regard to the smuggling of opium, as well as the satisfactory reports from the Interior on the favourable weather for the new crop, have considerably impressed holders, who have permitted the buyers for Japan to shade the price by 5 to 10 per cent., for lots including lower percentage material. The buyers have succeeded in obtaining 82 cases during the last few days, and continue in the market. It ought to be mentioned that for these last purchases a percentage above 11.50 to 11.70 per cent. (Harrison) is unnecessary. From Salonika we hear that the crop is poor, and as a result of heavy rains not more than 120 to 150 cases can be counted on. The following are the arrivals and stocks at Constantinople for this period:—Arrivals, druggists', 445 cases; "softs," 226 cases; Malatia, 38 cases. Stock: druggists', 176 cases; "softs," 130 cases; and Malatia, 14 cases.

ROSE PETALS.—New crop French are offered at 3s. per lb.

SENEGA is easier, with spot sales at from 4s. 6d. to 4s. 7 $\frac{1}{2}$ d. per lb., and to arrive 3s. 10 $\frac{1}{2}$ d. c.i.f. quoted for July-August shipment. This is regarded as a high

price on which to start the new crop; forward business has been done at slightly less than the foregoing.

SHELLAC has been quiet, the spot value of the usual standard T.N. Orange quality being 375s.; fine second orange is 410s., superfine 450s., RL1 440s., AC cakey 325s., and GAL 290s. The delivery market is lower, the sales including August at from 375s. to 367s. 6d., and October at 372s. 6d.

STARCH PRODUCTS.—Farina is quiet, Japanese No. 1 offering at 27s. per cwt. c.i.f. for June-August shipment, Dutch farina on the spot is 31s. per cwt. Sellers of pure English rice starch crystals quote £44 per ton and Continental at £33. American maize starch powder in bags is now 14s. 6d. per cwt. on the spot.

VALERIAN.—Good clean Belgian is offered at 60s. per cwt.

WAX (VEGETABLE).—Japanese is quiet, with spot offering at 90s. per cwt., and to arrive at 75s. c.i.f.

The exports from Japan during March amounted to 5,419 piculs, valued at 213,175 yen. During the three months ended March 31 they were as follows:—

		1920	1921	1922
Piculs	..	2,770	4,115	11,331
Yen	..	152,205	154,872	439,675

Seeds, Spices, etc.

ALMONDS.—Satisfactory reports of the various almond crops continue to be received, and this is reflected in the lower offers for forward delivery.

ARROWROOT is quiet, common to good manufacturing St. Vincent offering at from 3 $\frac{1}{2}$ d. to 4d. and grocery 5d. to 7 $\frac{1}{2}$ d. per lb.

CASSIA LIGNEA is steady, with spot sellers of whole selected at 45s., and broken at 35s. per cwt.

CHILLIES are still very dear. Pale Nigerian offer at 150s. and Zanzibar at 155s. per cwt. At auction 79 bags large pale red Lagos were bought in at 160s. per cwt.

CLOVES are steady, fair Zanzibar offering on the spot at 1s. 2d. per lb. To arrive, June-August shipment is quoted at 1s., and the value of July-September shipment is 9d. per lb. c.i.f. Reports are current of a large Zanzibar crop in prospect.

COCONUT (DESICCATED) is steady on the spot, with sales of fine and medium Ceylon at from 38s. to 38s. 6d. per cwt. To arrive, June-July shipment has been sold at 37s., July-August at 37s. to 37s. 6d. and August-October at 38s. c.i.f., sellers quoting the latter position at 38s. 6d. c.i.f.

CORIANDER is quiet, with wormy Mogador selling at 12s. 6d. to 13s. 6d. per cwt.

FENUGREEK SEED is quoted at from 13s. to 14s. per cwt. on the spot.

GINGER.—Business continues fairly active in most descriptions. Jamaica is still very scarce, the value of good sound being about 195s. per cwt. and common dark rhatoon 160s. to 170s. per cwt. Good to fine Calicut is 62s. 6d. to 65s., and fair washed rough Cochin 55s. to 57s. 6d. per cwt.

HEMP SEED has advanced 1s. per cwt., both on the spot and for forward delivery.

MACE.—At auction prices were 1d. to 2d. per lb. higher, 71 packages West Indian selling at from 1s. 8d. to 1s. 10d., ordinary reddish 1s. 5d. to 1s. 6d., and broken 1s. 4d. per lb.

NUTMEGS are steady. Singapore 110's offer at 9 $\frac{1}{2}$ d., 80's at 1s. 0 $\frac{1}{2}$ d., and 65's at 1s. 8d. West Indian 110's at 8 $\frac{1}{2}$ d., slightly defective at 7d., and wormy at 5 $\frac{1}{2}$ d. to 6d. per lb. Sound W.I. are scarce on the spot, with no advice of shipment.

PEPPER is quiet, but steady, with spot sales of fair black Singapore at 4 $\frac{1}{2}$ d. per lb. To arrive, July-September shipment has been sold at 3 $\frac{1}{2}$ d. per lb. c.i.f. Tellicherry to arrive is quoted at 43s. c.i.f. and Aleppy at 41s. 6d. c.i.f. Lampong on the spot is 4 $\frac{3}{4}$ d., fair Tellicherry 4 $\frac{1}{2}$ d., and Aleppy 4 $\frac{1}{2}$ d. White Muntok has spot sellers at 7 $\frac{1}{2}$ d.; for June-September shipment 7 $\frac{1}{2}$ d. c.i.f. is quoted. White Singapore has spot sellers at 6 $\frac{3}{4}$ d., and July-September shipment is quoted at 6 $\frac{3}{4}$ d. c.i.f. d.w.

PIMENTO is dull of sale at 2 $\frac{1}{2}$ d. per lb. on the spot.

Essential Oils

A FAIR amount of business is being done, and prices generally are firm, with several showing an upward tendency. The seed crops almost the world over are expected to be lighter this season, particularly caraway and coriander. Star anise oil is the outstanding feature of the week, and a sharp advance has taken place. For more than two years the oil has proved profitless to the holder, and to keep it for twelve months meant an addition of 17½ per cent. to its cost owing to excessive charges. American peppermint oil is decidedly firmer.

ANISE (STAR) is the chief article of interest. Rumours of much higher prices reached interested parties late last week, and quiet spot buying took place at up to 2s. 2d. per lb.; subsequently several hundred cases changed hands at 2s. 3d. to 2s. 4½d., and the spot price is now 2s. 4d. buyers, with sellers at 2s. 6d. The first-hand c.i.f. price is 2s. 8d. to 2s. 9d., and second-hands 2s. 6d. c.i.f.

CAJUPUT.—Case lots are selling at 3s. 3d. per lb.

CAMPHOR.—White essential Japanese in 7-cwt. drums is quoted at 80s per cwt., and in tins and cases at 87s. 6d. per cwt. on the spot.

The exports from Japan during March amounted to 1,445 piculs, valued at 32,500 yen. During the three months ended March 31 they were as follows:—

	1920	1921	1922
Piculs	7,675	1,388	2,502
Yen	293,431	23,453	62,922

CITRONELLA.—Ceylon is cheaper to arrive, offering at 1s. 8d. per lb. c.i.f.; the spot price remains at 1s. 10½d. per lb.

CASSIA.—The spot price of 80 to 85 per cent. cinnamic aldehyde is 4s. 9d. per lb., and from second hands 4s. c.i.f. is quoted for near at hand.

CLOVE.—As it is quite expected the spice will be lower in value on reports of good crops, the distilled oil is weaker; 8s. per lb. net would probably buy English.

DILL.—East Indian is offered at 15s. per lb.

EUCALYPTUS.—Good white oil testing 70 to 75 per cent. is offered at 1s. 6½d. per lb. on the spot.

LIME.—West Indian distilled in 5-case lots is quoted at 2s. 3d. per lb.; larger quantities would be shaded 1½d. Hand-pressed oil is quite nominal.

MINT.—Japanese dementiolised (Kobayashi-Suzuki) is quiet at 5s. 1½d. to 5s. 3d. per lb. on the spot, and for June-August shipment 4s. 9d. c.i.f. is quoted. At the close the market has a firmer tendency, owing to the receipt of Continental orders.

The exports from Japan during March amounted to 126 piculs, valued at 33,473 yen. During the three months ended March 31 they were as follows:—

	1920	1921	1922
Piculs	410	524	213
Yen	291,434	144,738	55,935

LEMON is cheaper to arrive, offering at 3s. per lb. c.i.f., and on the spot 3s. 3d. to 3s. 4d. is quoted.

PALERMO.—June 16.—The market continues very excited. The payments made by the Camera Agrumaria, and the fact that the pressing season is now definitely closed, has placed small producers in such a position that they no longer find themselves in need of ready cash. Consequently, a certain demand which has come in from abroad, the regaining of courage on the part of speculators, and the opportunity which presented itself of squeezing certain exporters, have together combined to agitate our market, and sellers have withdrawn in the hope that there may be an increase in the demand.

PEPPERMINT has a decidedly firmer tendency, and the spot values are now given as 9s. 6d. to 10s. per lb. for the usual brands of American oil in tins, as the result of the receipt of higher prices cabled from New York.

SASSAFRAS.—American natural is offered at 5s. 9d. per lb. on the spot.

Pharmaceutical Chemicals, etc.

ACCORDING to the reports to hand, business has been much brighter this last week or two. Generally the market seems quite steady, and very little change in prices is notified. Citric and tartaric acids continue in good demand, with spot supplies very restricted.

ACETANILIDE is offered at about 1s. 3d. to 1s. 4d. per lb., but the demand is not good.

AMIDOPYRIN is neglected, with offers made at 17s. per lb.

AMMONIUM BENZOATE remains on quotation at 4s. per lb., with holders willing to accept less.

ASPIRIN is now very firm at level figures of from 2s. 10d. to 3s. per lb., according to quantity.

BARBITONE is seldom called for, and is offered at 10s. per lb.

BENZOIC ACID stands very firm and in fair demand at 1s. 5d. to 1s. 9d. per lb.

BENZONAPHTHOL continues very quiet, with quotations round about 4s. 9d. to 5s. per lb.

BETANAPHTHOL.—Resublimed is still neglected on offer at 2s. 6d. per lb. as a nominal value.

BROMIDES.—The demand continues, although perhaps not quite so briskly. Prices are steadily maintained. Ammonium, about 1s. per lb.; potassium, crystals and granular, 9½d. to 10d. per lb.; to arrive, 7½d. c.i.f. is quoted for potash; sodium, 9½d. to 10d. per lb.

CALCIUM LACTATE holds at about 2s. 2d. to 2s. 3d. per lb. for small lots, with occasional demand.

CHLORAL HYDRATE.—Duty-paid is in fair request, and selling round about 5s. per lb. as to quantity.

CITRIC ACID.—The position is unaltered. Spot supplies are practically cleared, and 2s. 6d. to 2s. 7d. is easily obtainable for any about. For a parcel close at hand 2s. 5d. per lb., less 5 per cent., is quoted.

CREOSOTE.—B.P. is steadier at last week's lower price of 2s. 9d. per lb.

CREOSOTE CARBONATE remains neglected, with offers easy at 10s. to 10s. 3d. per lb.

GUAIACOL CARBONATE is still irregular on quotation, which vary from 8s. 3d. to 9s. per lb.

HEXAMINE is steady, and some holders are not willing to sell under 3s. 6d. per lb.; others quote 3s. 4d.

METHYL SALICYLATE stands firm and in fair demand at 2s. 4d. to 2s. 6d. per lb.

METHYL SULPHONAL seems to be unwanted, with offers at the nominal figure of 15s. per lb.

PARAFORMALDEHYDE has been quiet, with quoted price unchanged at 3s. per lb.

PARALDEHYDE on the spot is seldom called for, and is offered at 1s. 4d. to 1s. 6d. per lb.

PHENACETIN has been brighter, with spot material steady at 5s. 3d. per lb.

PHENAZONE is offered at about 7s. 3d. per lb., with occasional demands.

PHENOLPHTHALEIN is steady but dull at 3s. 6d. per lb.

PIPERAZINE on the spot is in large supply, with the quoted price of 3s. 6d. per oz.

POTASSIUM IODIDE.—The exports from Japan during March amounted to 1,006 kin, valued at 7,121 yen. During the three months ended March 31 they were as follows:—

	1920	1921	1922
Kin	6,001	2,651	2,671
Yen	54,138	16,955	21,367

Of crude iodine the exports during March amounted to 4,381 kin, valued at 24,413 yen. During the three months ended March 31 they were:—

	1920	1921	1922
Kin	1,301	828	6,721
Yen	13,831	5,941	37,100

POTASSIUM PERMANGANATE.—B.P. continues to be in fair request at from 8d. to 10d. per lb.

POTASSIUM SULPHOGUAIACOLATE remains lifeless, with sellers at 5s. 6d. per lb.

RESORCIN is quiet; spot holders would shade the quoted price of 7s. 3d. per lb.

SALICYLIC ACID.—B.P. is dearer on spot, with little of good quality now obtainable below 1s. 6d. per lb.

SALOL is steady but dull at 1s. 9d. to 2s. per lb.

SODIUM BENZOATE is firm at 1s. 6d. to 1s. 9d. per lb., with the forward position at higher rates.

SODIUM DIETHYLBARBITURATE is very dull; spot holders quote at about 17s. to 18s. per lb., but sales would generally be at lower figures.

SODIUM SALICYLATE is fairly active, with spot-offered

at unchanged rates. Powder, about 1s. 10d. to 2s., and crystals, 1s. 10d. to 2s. 2d. per lb.

SULPHONAL remains sluggish; quotations are unchanged at about 14s. 9d. to 15s. per lb. as to quantity.

TANNIC ACID.—Leviss is now steady, but still quiet at 3s. 6d. per lb.

TARTARIC ACID on spot is firm at 1s. 6d. per lb. and upwards for any available. There is a keen demand.

TERPENE HYDRATE stands at 2s. per lb. on a dull market.

THYMOL is quoted at about 22s., with sales generally at about 20s. per lb.

Industrial Chemicals, etc.

London, June 28.

THE more settled conditions in the industrial world seem to be having a good effect on this market. The demand is generally stated to show a little improvement on the past, and it is thought that this tendency will continue. Prices are all on about the same level, and the market seems quite steady.

ACETIC ACID on the spot holds firm and a fair demand has been experienced; supplies are being absorbed as they come to hand. 80 per cent. technical, £40; 86 per cent. pure, £43; 98 per cent. glacial, about £64 per ton in casks and demijohns, ex wharf, London.

ACETONE.—British Government specification has livened up considerably, and spot is firmer and advancing: £69 per ton in drums.

AMMONIA (ANHYDROUS) has been in good request at the level rate of 1s. 10d. per lb. for 99.95 per cent.

AMMONIUM MURIATE.—A steady business is being done at about 33s. per cwt. for grey galvanising quality.

AMMONIUM SULPHATE continues in brisk demand for export, with limited supplies available from agents at the firm price of about £17 per ton.

ARSENIC.—There is not much offering, while white Cornish powder is getting rather scarce. Mine agents ask about £42 to £42 10s. per ton delivered London, but second-hand holders are found here and there at a pound or two less.

BARIUM CHLORIDE prices are still ruling very high; some small inquiry has been received. British is now quoted up to £22 per ton.

BLEACHING-POWDER is steady on spot at about £13 per ton, but in no great demand.

COPPER SULPHATE.—The firmness has been well sustained, and there has been a steady run of export business. Makers' quotations vary from £28 down to £27 10s. for casks, less 5 per cent., f.o.b. Liverpool. The home trade demand has been a little better. It is interesting to hear that some of the Continental users have been grumbling about the quality of the Italian product, and this may tend to help inquiries being diverted to British makers. Considerable quantities have apparently yet to be shipped to the Continent against outstanding contracts.

CREAM OF TARTAR.—The spot position is about the same. While there is still a good demand, the supplies remain difficult to obtain, and are firm at 114s. to 117s. 6d. per cwt. for 99 to 100 per cent. B.P.; the forward position is a shade easier, on account of the lower Italian rate of exchange. In ton lots 109s. c.i.f. is quoted.

FORMALDEHYDE on spot is firmer and in much better demand, with spot supplies much smaller: £68 per ton is asked.

GLAUBER'S SALT.—Commercial quality continues to move but very slowly at £4 per ton in single bags.

LEAD ACETATE is unchanged and has remained quiet: Brown broken, £35 to £36, and white crystals, about £40 per ton.

LEAD PRODUCTS.—Makers of oxide and white lead are again complaining of the slackness of trade demand, and in view of the notable weakening in the market for pig lead, there is some talk of concessions being made shortly. For one thing, the margin in value between pig lead and the manufactured product is still exceedingly wide compared to what it was in pre-war times, and this should be to some extent corrected under falling wages.

LITHARGE on the spot is steady at about £34 to £34 10s. per ton, with British unaltered at £36 per ton; the demand has not been good.

OXALIC ACID has been very quiet, with spot holders asking about 8½d. per lb.

POTASSIUM BICHROMATE continues on the quiet side at 6½d. to 7d. per lb.

POTASSIUM CHLORATE holds at about 4½d. per lb., and has been in a little better request.

POTASSIUM PRUSSATE is firm at level figures on the week at 1s. 3½d. per lb., and there has been fair business done.

SAL AMMONIAC.—The demand has been fair and spot stocks are not large: Dog-tooth crystals, 55s.; medium-sized crystals, 50s.; fine white crystals, 33s.

SALTCAKE remains quite neglected, and is offered at £4 per ton f.o.b.

SODA ASH (58 per cent. light alkali) is steadier but still slack: Spot, London, £9 10s.; Manchester, £8 10s. per ton. Makers' price to domestic consumers on contract unchanged at £8 7s. 6d. per ton.

SODA CAUSTIC.—The spot market shows no signs of activity. Supplies are plentiful and offered at 70 to 72 per cent., £21 to £22, and 76 to 77 per cent. at £23 to £24 per ton, in drums, ex wharf, shipping port. Makers' prices show a reduction of £2 per ton for the next six months to domestic consumers on contract.

SODA CRYSTALS for home trade only from British makers unchanged at £6 per ton in bags, carriage paid to destination.

SODIUM ACETATE on the spot is at about £23 10s. to £24 per ton, but in little demand. British is at about £24 per ton.

SODIUM BICARBONATE continues to be fairly active, with spot selling round about £11 per ton. British makers' price is unchanged at £11 per ton in bags, delivered free, for home trade only.

SODIUM BICHROMATE is inclined to be a shade easier on spot, with isolated lots at 5d. per lb.; general quotation remains at 5½d. per lb.

SODIUM CHLORATE has been in better request, and is quoted steadily at 3½d. per lb.

SODIUM HYPOSULPHITE.—Pea crystals are firm on spot and in fair request at £19 10s. to £20 per ton; commercial quality remains dull at about £14 per ton. Pea crystals have been considered "R quality," and are liable to the key duty of 33½ per cent. on importation. An appeal is shortly to be heard against this decision.

SODIUM NITRATE is steady and fairly active at from £15 to £15 5s. per ton for 96 per cent.

SODIUM PRUSSATE continues to hold firm and spot is short, with holders asking up to as high as 11d. per lb.

SODIUM SULPHIDE is very quiet: 60 to 62 per cent. solid in drums, £20 to £21 per ton; 60 to 65 per cent. concentrated in casks, £21 per ton.

COAL-TAR PRODUCTS, ETC.—Pitch appears to be much firmer and in better demand. Other products are on about the same level as last reported. ANILINE OIL and SALT remain lifeless, with values nominal at 1s. per lb., packages free. PITCH is now very firm, and slightly higher rates would not be surprising in the near future: 75s. per ton. Pure METHYL ALCOHOL stands steady but still in little request at £60 per ton ex wharf, London. CRESYLIC ACID is firmer, and 2s. 3d. to 2s. 4d. per gallon, naked at makers' works, is now being asked and paid. CREOSOTE OIL has been dull and inclined to weaken from the quoted price of 6d. per gallon. CARBOLIC ACID CRYSTALS are firm at 5½d. per lb. f.o.b. United Kingdom port. PYRIDINE is quiet with quoted values unchanged at 5s. 9d. per gallon. HEXAMETHYLENE is quoted at 3s. per gallon, but the market is inactive. NAPHTHALENE stands steady and in some little demand at £17 per ton.

Fixed Oils, etc.

LINSEED OIL has been in fair demand, and the market is steady at slightly better rates. American turpentine continues to advance, and this week closes at very high rates, both on spot and for forward positions. ACID OILS.—At level figures on the week this market is very firm, with supplies very scarce: coconut, 35s.; palm-kernel, 35s.; and groundnut, 35s. for spot and July. CASTOR OIL holds firm at even prices; pharmaceutical, 57s.; first pressings, 52s.; second pressings, 50s. per cwt. in barrels ex mills, Hull, in not less than one-ton lots. COCONUT OIL.—A steady tone governs the spot market at

the following rates:—Deodorised dearer at 52s.; Ceylon at 41s. 6d.; and Cochin at 47s. 6d. COTTONSEED OIL.—Spot has been quiet and prices are not so firm: Deodorised, 52s.; common edible, 47s.; soapmaking, 45s. and crude, 42s. GROUNDNUT OIL.—A quiet tone prevails on the spot with quoted prices about the same: Deodorised, 57s.; crude Oriental, for shipment, 47s., c.i.f. LINSEED OIL.—The recovery noted last week made further progress early this week under an improved home trade demand, while speculative buying was attracted in forward positions under the influence of the marked rally in the linseed quotations. Crushers' stocks of the oil-products appear to be very light, as much as 11,423 tons were dispatched abroad during May, this making the aggregate for the five months 37,171 tons, or an increase of close on 22,000 tons, compared with the same period last year. These figures are rather illuminating, and chiefly reflect the wonderful American demand which is estimated to have absorbed over 75 per cent. of the total export business. At the close the market was decidedly quieter with the tone not quite so firm. Closing prices are: Raw, naked, on spot, 43s. 6d.; June, 41s. 9d.; July-August, 41s. 6d.; September-December, 38s.; Hull, on spot, 43s.; June, 42s. 6d.; July-August, 41s.; September-December, 37s. 6d. PALM-KERNEL OIL.—Deodorised is at slightly higher rates, but business is slow at 50s.; crude Oriental is unchanged at 47s. PALM OIL.—At the rates stated the market is very firm, both on spot and forward; there has been a good inquiry; Lagos, 35s. 6d.; softs, 34s.; hards, 32s. 3d. RAPE OIL.—The spot market remains dull, with prices maintained at a high level; refined, 57s.; crude, 49s. SOAP STOCK GROUNDNUT.—None offering. SOYA-BEAN OIL is much steadier this week, with prices unaltered: Deodorised, 48s.; crude Oriental, 40s. TURPENTINE.—Wild ups and downs have taken place in prices. Following on the merits of the position in America, as set out in our issue of June 24, the market late last week jumped to as high as 120s. for spot delivery, but prices fell back considerably early this week to 103s., due to the demand having been checked at the inflated level. Actual business has been done in the region of 90s. The visible stocks on hand are at the low level of 6,868 barrels; this, combined with the report that the new crop will be far under the average, has had the effect of stiffening prices on the spot very considerably. A better demand has also strengthened the market. Closing prices were: On spot, 103s. 6d.; June, 103s. 6d.; July-August, 101s.; July-December, 97s. 6d.; September-December, 96s.

Price-Comparison of Pharmaceutical and Industrial Chemicals

(From December, 1921, to June, 1922)

Pharmaceutical Chemicals		December, 1921.	June, 1922.
	Unit.		
Acetanilide ..	.. lb.	1/4 to 1/6	1/2 to 1/4
Amidopyrin ..	.. "	19/- to 20/-	17/- to 18/-
Aspirin ..	.. "	3/-	2/10 to 3/-
Barbitone ..	.. "	12/6	9/6 to 10/-
Benzoic acid ..	.. "	2/3	1/6 to 1/9
Benzonaphthol ..	.. "	6/6	5/-
Betanaphthol resub.	.. "	3/-	2/6
Calcium lactate ..	.. "	2/- to 2/3	2/2 to 2/3
Chloral hydrate ..	.. "	4/9 to 5/-	4/9 to 5/-
Citric acid, B.P. ..	.. "	2/3	2/6 to 2/7
Creosote, B.P. ..	.. "	3/6 to 3/9	2/9 to 3/-
Creosote carbonate ..	.. "	14/-	10/-
Guaiacol carbonate ..	.. "	12/- to 12/6	9/-
Hexamine ..	.. "	4/-	3/3 to 3/6
Hydroquinone ..	.. "	4/2 to 4/3	4/3 to 4/6
Methyl salicylate ..	.. "	2/6	2/4 to 2/6
Methyl sulphonal ..	.. "	19/- to 20/-	15/-
Paraformaldehyde ..	.. "	3/6	3/- to 3/3
Paraldehyde ..	.. "	1/9 to 2/-	1/4 to 1/6
Phenacetin ..	.. "	6/- to 6/3	5/3 to 5/6
Phenazone ..	.. "	8/-	7/3
Phenolphthalein ..	.. "	3/9 to 4/-	3/6
Piperazine ..	.. oz.	4/-	3/6
Potash bromide, B.P., cryst.	.. "		
and gran. ..	.. lb.	1 1/11 to 1 2/11	9 1/2 d. to 10 d.
Potash sulphoguaiacolate ..	.. "	8/-	6/- to 7/-
Quinine sulphate ..	.. oz.	3/-	2/3

Resorcin ..	.. lb.	8/- to 8/3	7/- to 7/3
Salicylic acid, B.P. ..	.. "	1/4 to 1/6	1/4 to 1/6
Salol ..	.. "	2/6 to 2/9	1/9 to 2/-
Sodium bromide ..	.. "	10 d. to 10 1/2 d.	9 1/2 d. to 10 d.
Sodium diethylbarbiturate ..	.. "	22/- to 23/-	17/- to 18/-
Sodium salicylate ..	.. "	2/- to 2/2	1/10 to 2/2
Sulphonal ..	.. "	17/- to 18/-	15/-
Tannic acid, lewiss ..	.. "	4/9	3/6
Terpene hydrate ..	.. "	3/6	2/-
Thymol ..	.. "	22/-	19/6
Vanillin ..	.. "	40/-	35/-

Industrial Chemicals

	Unit.	December, 1921.	June, 1922.
Acetic acid :			
80 per cent. pure ..	.. ton	£43	£43
80 per cent. tech. ..	.. "	£40	£40
98 per cent. glacial ..	.. "	£50	£62 16s. to £65
Alum, lump ..	.. "	£12 10s. to £16	£13 to £13 10s.
Barium chloride, 98 to 100 per cent. ..	.. ton	£13 10s. to £14	£17 to £19
Bleaching powder, 35 to 37 per cent. ..	.. ton	£16	£13
Borax, comml. cryst. ..	.. "	£30	£29
powdr. ..	.. "	£31	£30
Boric acid, comml. cryst. ..	.. "	£65	£60
powdr. ..	.. "	£67	£62
Copper sulphate ..	.. "	£28 10s.	£27 to £27 10s.
Copperas, green cryst. ..	.. "	£6 10s.	£3 12s. 6d.
Cream of tartar, 99 to 100 per cent. ..	.. ton	£122	£117 10s.
Epsom salt, comml. ..	.. "	£8 10s.	£6 10s.
Formaldehyde, 40 per cent. ..	.. "	£80	£66
Glauber's salt, comml. ..	.. "	£5	£4
Lead acetate, brown broken ..	.. "	£36	£35 to £36
white cryst. ..	.. "	£43	£39 to £41
Lime acetate, 80 per cent. "		
grey ..	.. ton	£10 10s.	£13 10s.
Litharge ..	.. "	£34 10s.	£35 to £36
Lithopone, 30 per cent. red seal ..	.. ton	£24 10s.	£23 10s.
Mercury ..	.. bottle	£10 5s.	£11 10s.
Oxalic acid ..	.. lb.	8 1/2 d.	8 1/2 d. to 8 1/2 d.
Potassium bichromate ..	.. "	7 1/2 d. to 8 d.	6 1/2 d.
Potash caustic, 88 to 92 per cent. ..	.. ton	£32 to £33	£31 to £31 10s.
Potassium permanganate, comml. ..	.. lb.	10 d. to 11 d.	9 d. to 10 d.
Potassium prussiate, red ..	.. "	2/- to 2/3	nominal.
yellow ..	.. "	1/1 to 1/2	1 1/3
Saltcake ..	.. ton	£5 to £6	£4
Soda ash (58 per cent.) ..	.. "	£10	£8 10s. to £9 10s.
Soda crystals ..	.. "	£7	£6
Sodium acetate ..	.. "	£26	£24
Sodium bicarbonate ..	.. "	£11 10s.	£11 to £11 10s.
Sodium bichromate ..	.. lb.	6 d. to 6 1/2 d.	5 1/4 d.
Soda caustic :			
70 to 72 per cent. ..	.. ton	£24 to £24 10s.	£22
76 to 77 per cent. ..	.. "	£26 10s.	£24
American, 76 per cent. ..	.. "	£26 10s.	£24 to £25
Sodium chlorate ..	.. lb.	3 1/2 d.	3 1/4 d.
Sodium hyposulphite :			
Pea crystals ..	.. ton	£20	£19 10s. to £20
Comm. quality ..	.. "	£14	£13 10s. to £14
Sodium prussiate ..	.. lb.	8 d.	10 d. to 11 d.
Sodium sulphide, 60 to 62 per cent. solid ..	.. ton	£22	£21
Zinc oxide, white seal ..	.. "	£41 10s.	£36 10s.

Coal-Tar Products

	Unit.	December, 1921.	June, 1922.
Betanaphthol ..	.. lb.	1/9	1/5
Benzol ..	gall., naked	3/-	1/11 to 2/-
Toluol ..	.. "	3/-	2/3
Creosote oil ..	.. gal.	8 d.	6 d.
Carbolic acid, cryst. ..	.. lb.	6 d.	5 1/4 d.
Cresylic acid ..	.. gal.	2/6	2/3
Naphthalene, crude ..	.. ton	£5 to £9	£4 to £7
flakes ..	.. "	£19	£16
crystals ..	.. "	£18 10s.	£15
powder ..	.. "	£19	£16
Solvent naphtha, 90 to 160 gal. ..	.. "	2/10	2/- to 2/1
" 90 to 190 ..	.. "	2/8	2/- to 2/1

CONGRESS OF APPLIED CHEMISTRY.—A Reuter telegram states that the Congress of Applied Chemistry, which last year was held in Paris, will this year be held at Marseilles from July 2 to July 8. More than twenty countries will be represented.



Wireless Telegraphy

SIR,—May I be permitted to supplement the list of books given in your article on wireless telegraphy in the Special Issue of the *C. & D.*:—"Wireless Telegraphy and Telephony and How to Make the Apparatus" (Cassell & Co., 1s. 6d.); "The Construction of Amateur Valve Stations" (1s. 6d.); "The Elementary Principles of Wireless Telegraphy" (9s.); "The Radio Experimenter's Handbook" (3s. 6d.); "Wireless Telegraphy and Telephony—First Principles, Present Practice, and Testing" (9s.). These by Wireless Press, Ltd. "Admiralty Handbook of Wireless Telegraphy" (7s. 6d.); "Wireless World and Radio Review" (weekly, 6d.). The above I am personally acquainted with and can recommend; those treating the subject less technically are placed first. With congratulations on your "Special Issue." Yours faithfully,

A. GREENWOOD WATKINS.

Maidenhead.

SIR,—The newer development of "wireless," referred to in the *C. & D.*, June 24 (p. 194), is wonderfully interesting, but students of the subject ought to make themselves conversant with the earlier forms of the same phenomena. The pharmacist, of course, is supposed by his customers to understand all this kind of thing, and with the young people and most of the old folk nothing appears to interest quite so much as anything electrical. Some years ago the writer prepared for show purposes—a church bazaar, in fact—a small set of apparatus to demonstrate the transformation of energy, as exemplified by a battery, into manifestations of sound, light and heat, magnetism and electricity, and it is not easy to express the amount of pleasure derived from working up these subjects and putting together the apparatus. The actual requirements were: Electrical bell, lamp, a cigar lighter, electro magnet, and needle (telegraph), and to these was added an electric fan. Naturally it is impossible to stop here, for electro magnets and motors, model railways, dynamos, etc., are merely carrying the hobby a little further. Now, practically all the above can be demonstrated by means of "wireless," but not with any of the various "detectors": the filings coherer must be used and preliminary experimental work should be done by making a Hertz transmitter and resonator. A small spark coil must be made or bought, as also a relay. One of my most effective models was a warship about 30 in. long, made of cardboard and thin wood, and balanced and mounted on a pivot fixed to a circular base of wood. On board—or, to be exact, below the deck—were a bell, small motor, relay and coherer; an aerial was suspended between two masts and a wire brought down to the coherer. Several small lamps were fixed in different parts, and a cannon figured on deck "abaft" the funnels. A small accumulator below worked all these. The model was put on a table and—some yards away—was the coil and transmitting apparatus connected to aerial in the usual manner. A spark and the bell rang on the ship; another spark and the motor was started and the ship began slowly to revolve. A third spark set the vessel aglow with the lamps, while a fourth fired the cannon. All very easily explained, but considered "wonderful" by the lookers-on. Visitors were frequent in those days, and one of the most interested was the local P.O. engineer. Each of these—bell, lamps, etc.—was in series with the relay and coherer and battery, and switched on as required. The distance being of small account, earth wires were dispensed with. Many people have seen lamps lit by means of wireless—as in a well-known music-hall turn—but the other movements are seldom observed. It is, of course, easy to apply this to a model railway, when the interest is, if anything, increased. I have preferred for the most part to leave apparatus as open as possible so that the various parts are exposed, and the general principles can then be very readily explained and

followed. To my great regret and loss, I have all along been cut off through deafness from the wider and interesting phases of wireless telegraphy; for all that, my apparatus was annexed by the authorities "for the duration." If the present promise is fulfilled the demand will be considerable and permanent for apparatus and sundries, and I see no reason why pharmacists here and there should not benefit. By training they are more likely than others quickly to assimilate the principles and practice of these matters. There are highly intelligent electricians to be met with, but as a fact gained by myself at some cost of money I may remind my readers that the sign over the door is not real evidence of the qualification of the man inside. The fitting of bells and lamps, etc., is of importance in these times, but cover after all a very small field. Pharmacists might easily become well informed in advanced electrical science.

Yours truly,

VETERAN (26/6).

Tablespoonfuls or Tablespoonsful?

SIR,—The old question has been raised in the correspondence column of a daily paper as to whether it is correct to direct medicine to be taken by tablespoonfuls or by tablespoonsful. The grammarians will have it that the plural *s* should be placed after spoon, and the practical people adhere to the "fuls." Both "Ince" and "Selecta Prescriptis" adopt the latter method, and there can be no doubt that the word used in this sense is a single word meaning the measure of a tablespoon, and therefore the plural *s* should come last, as the word is not used in the same way as an ordinary compound word such as "sons-in-law."

Yours, etc.,

COCILEARE (20/6).

Free Film Developing

SIR,—I have seen an advertisement in a daily paper for a developing and printing firm, which states that unsuccessful exposures are not charged for. This leads me to inquire whether any pharmacists have adopted this procedure, as if the meaning of the advertisement is taken literally, I fail to see how it can be done. Amateurs' negatives, and especially those on roll films, do not, as a rule, err on the successful side, and the principle of not charging for unsuccessful exposures would lead to a large proportion of the work being done for nothing. For example, recently I had a customer who brought in several rolls of film to be developed on which there was nothing at all, and after inquiry and examining the camera I found that the shutter was out of order and required repairing. Would this work have been done for nothing? Because, if so, there would have been a dead loss in time and material. And then, again, what is an unsuccessful exposure, and who is the judge of success or otherwise? A novice might consider any negative which could be printed at all as a success, whereas an experienced plate-worker might send up a dozen plates to be developed, and the results being below his usual standard, would class them as unsuccessful. Would he be justified in refusing to pay for the development? Taking it all round, I should consider it a most unsatisfactory offer, as work done should certainly be paid for, the success or otherwise of the result not being in the hands of the operator when the exposure has been made by another party, and I should think the method is not likely to become general.

Yours faithfully,

L. O. D. (23/6).

Window-displays

SIR,—In an article I read recently on window-display, the policy of making a show of a single article is advocated as a means of increasing its sale. There is no doubt that the single display method does in many instances affect big increases, but I doubt whether it is sound business when applied to the ordinary pharmacist's retail trade. Big stores have, as a rule, a range of windows and can afford to devote one of them to one line at a time, but the average pharmacist has, more often than not, to make the best of one window only. Against this he has a very varied range of stock which he has to show consistently in order to keep the various articles before the public, and if any pharmacist, who has only one principal window, gives a fortnight's display to one special line, he will find that although he has probably increased the sale of that

special article, by keeping an eye on the average sales of his general stock, he will find that they have dropped during the same period. With the large number of lines which the ordinary chemist is compelled to keep, it is absolutely necessary to have them displayed as much as possible, and to do so the man with a limited window-space will find that the window which draws the best all-round results is one in which he has a variety of goods tastefully arranged in blocks and separate and well-worded showcards to back up each section with. Some of the busiest city pharmacists have their glass shelves right up to the windows with a very large assortment of goods filling the whole space, and it evidently pays them to do so or they would not carry on with it.

Yours truly,

WINDOW SHOW (26/6).

Legal Queries

A. B. (21/6).—Arsenical fly papers are a poison within the meaning of Part II. of the Poisons Schedule. (See *C. & D. Diary*, 1922.)

Shylock (19/6) proposes to lend a friend £50, to be repayable, without interest, by monthly instalments. What written document is usual in such a case? [*"Shylock"* should obtain from his friend either a promissory note or an I.O.U. In the former case a bill form, bearing a 6d. impressed stamp, should be used, which can be obtained at the post office.]

D. F. A. (260/33).—Persons who do not possess the qualification of pharmaceutical chemist or chemist and druggist under the Pharmacy Acts may not carry on the business of a chemist and druggist. The Pharmaceutical Society does not interfere with the use of the title chemist by professional chemists so long as they do not carry on an "open shop." There is no monopoly in the title "analytical and consulting chemist," so long as it is not used for the purpose of infringing the Pharmacy Acts.

Esor (19/6) has in his service a lady assistant who originally received no remuneration, but is now paid £1 a week. Must she be insured under the national scheme, and, if so, what contributions are payable in respect of her? [She must be insured both under the National Health and the Unemployment Insurance schemes. Assuming that the assistant is over 18 years of age, "*Esor*" must contribute in respect of her, each week, 9d. for Health Insurance, and 1s. 3d. for Unemployment Insurance, of which amounts he can deduct 4d. and 7d. per week respectively from her wages.]

H. R. (20/6) bought a watch about eighteen months ago with which he was given a written unconditional guarantee covering a period of two years. The watch has never been satisfactory, and "*H. R.*" has frequently returned it for adjustment by the seller. Even now the watch keeps bad time, and constantly stops. Is "*H. R.*" entitled to claim from the seller a new watch, or the return of his money? [Assuming that the warranty is in proper form "*H. R.*" can insist upon being supplied with a satisfactory watch, or having his money returned. To enforce his demand, however, he may be compelled to have recourse to legal proceedings, and if the seller is obstinate we advise "*H. R.*" to consult a solicitor.]

J. H. C. (25/6) proposes to place in his window a number of large and small boxes, each containing respectively 24 packets and 8 packets of a powder, and also a number of loose packets, arranged so that it is possible to count them, although with difficulty. Any person who purchases the powders is to be allowed to make, upon a coupon forming part of the wrapper, a written estimate of the total number of powders in the window. These estimates will be examined on a particular day, and a cash prize will be given to customer whose estimate proves to be the first correct solution examined. Is such

a scheme legal? [If the Court took the view that the competition was a lottery, "*J. H. C.*" would be liable to pay a fine, and he must decide whether the advantages to be gained are worth the risk of a prosecution. Our own view is that the element of skill involved in calculating the number of powders is sufficient to prevent the competition being a lottery.]

J. W. (12/6) has in his service one employee whose salary is £5 a week, two employees who receive 30s. each weekly, and an apprentice whose remuneration is 10s. a week. He also employs a charwoman to clean the shop. He has never insured any of the employees, and asks whether he must do so, and whether he is liable to pay arrears of contributions. [All arrears of contributions payable in respect of employees in "*J. W.*'s" service can be collected from him. The two employees who are paid 30s. a week, and the apprentice also, must be insured both under the Health Insurance and the Unemployment Insurance schemes. The charwoman is insurable under the former only if her work is cleaning of a purely domestic character. If she cleans bottles or prepares goods for sale she must be insured against unemployment also. The assistant who is paid £5 a week is apparently in receipt of remuneration exceeding £250 a year, in which case he is not insurable unless he is engaged in manual labour.]

Society (17/6) has in his service a lady assistant who was taken ill in December last and was in hospital until the end of May. Since her discharge her Approved Society has paid her sickness benefit for eight weeks only, and subsequently disablement benefit. The assistant omitted to hand in her stamped card for the first half of 1920 in time; and when she went into hospital she was induced to sign a paper stating that she had no dependents. Has she been fairly treated? [We gather that the assistant was in hospital receiving free treatment for practically the whole of the 26 weeks during which she would ordinarily be paid sickness benefit; and as she apparently had no dependents, no benefit would be paid to her during that period. In the circumstances, we do not see that she has been deprived of benefits due to her; but if she has any reason to complain of the manner in which her Society has treated her we suggest that she should lay the facts before the Chief Woman Inspector, Insurance Department, Ministry of Health, Whitehall, London, S.W.1.]

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," July 15, 1872

The Closing of the Session

The date warns us that another session is nearly numbered with the past: the reaping is well nigh ended, and it remains but to see who shall bring home most sheaves rejoicing. Already we enjoy by anticipation the social amenities and the delights of science offered by the approaching annual conference, and we are ready to welcome those of our confraternity in America, whose visit we expect. Let the chiefs manage their affairs as best they may; our business is with the soldiers in the ranks, the labourers in the field, and the runners in the race. Little have we to remark, and nothing new, but we are never tired of inculcating hope or of proclaiming the gospel of encouragement. To those who have let the sword hang ingloriously in the scabbard, we say, take heart of grace and try the fight again. To others who have begun to plough and allowed the voice of temptation to whisper in their ears, "turn back," we say, look at the corn white for the harvest, waiting to reward strong toilers—take heart of grace and strive once more. While to such as have bravely run their race and thankfully hung their crown in the quiet home, we say, be not weary in well-doing, take heart of grace, and so continue as to finish your course with joy. Leave to the discontented to wail about poor returns and narrow prospects. We plead for the intellectual life, and for this rest assured that its pursuits *do* satisfy the cravings of the mind, and that in its right hand, in the truest sense, there are pleasures for evermore.

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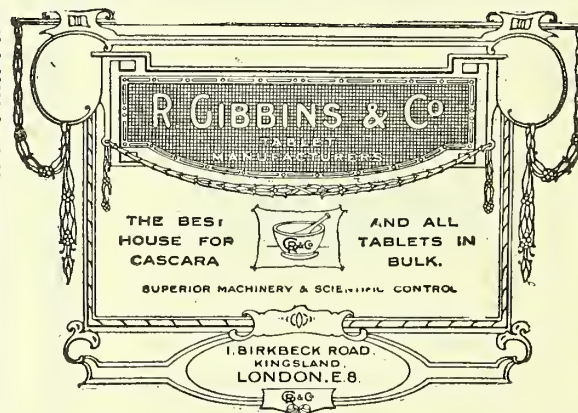
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" Carb., 28 lbs. @ 6½d. lb.; 7 lbs. @	" Saponis Meth., 9 lbs. @ 1/9 lb.	Salol, 7 lbs. @ 3/- lb.
Antim. Nig. Pulv., 7 lbs. @ 6d. lb. [7d.	" Tereb. P.B., 5 lbs. @ 1/6 lb.	Soda Bromid., 7 lbs. @ 1/4 lb.
B als. Copaiba, 44 lbs. @ 2/4 lb.; 7 lbs. @	" Tereb. Acet., 5 lbs. @ 2/- lb.	" Hyposulph. Parv., 1 cwt. @ 30/6 cwt.
Bismuth, Carb., 3 lbs. @ 13/7 lb. [2/9 lb.	Liq. Ammon. Acet., 1-7, 6 lbs. @ 1/- lb.	" Salicylat., 7 lbs. @ 2/6 lb. [6/1 lb.
Bismuth, Subnit., 3 lbs. @ 11/8 lb.	" Bismuth Am. Cit., 6 lbs. @ 1/6½ lb.	S pt. Ether Nit., P.B., 4½ lbs. @ 5/8 lb.; 1 lb.
C affeine, Pur., 1 lb. @ 19/- lb.	" Morph. Mur. or Acet., 5 lbs. @ 4/- lb.	" Ammon. Arom., P.B., 5 lbs. @ 4/2 lb.
" Cit., 1 lb. @ 14/6 lb.	Lithia Cit., 1 lb. @ 11/- lb.	" Chloroform, 5 lbs. @ 5/- lb.
Calcii Lactas, 1 lb. @ 3/6 lb.	M agnes. Sulph., 1 cwt. @ 17/- cwt. [oz.	S yr. Aurant., 7 lbs. @ 2/- lb.
Camphor Flor., 5 lbs. @ 5/6 lb.	Menthol. Cryst., 5 lbs. @ 27/6 lb. [10/-	" Ferri Iodid., 7 lbs. @ 1/10 lb.
" 1-oz. tabs., 7 lbs. @ 5/11 lb.	Morph. Mur. or Acet., 16oz. @ 8/10 oz.; 1 oz.	" Easton's, 7 lbs. @ 2/- lb.
Chlorodyne, 5 lbs. @ 3/6 lb. [4/7 lb.	O . Anisi, E.I., 16lbs. @ 2/10 lb.; 5 lbs. @ 3/-	" Ferri Phosph. Co., 7 lbs. @ 10d. lb.
Chloroform, Pur., 8 lbs. @ 4/- lb.; 6 x 1 lb.	" Ol. Cassia, 16lbs. @ 6/2 lb.; 5 lbs. @ 6/8 lb.	" Tolut, 7 lbs. @ 1/1 lb.
Cream Tartar Pulv., 7 lbs. @ 1/6 lb.	" Caryoph., 5 lbs. @ 11/- lb.	T inct. Aurant., P.B., 5 lbs. @ 15/- lb.
D ec. Senegae Conc., 6 lbs. @ 4/- lb.	" Eucalypt., P.B., 1 cwt. @ 1/11 lb.; 28	Tinct. Belladon., B.P., 5 lbs. @ 4/6 lb.;
	lbs. @ 2/- lb.; 9 lbs. @ 2/3 lb.	Aquos, 2/- lb.
E serine Sulph., 15 gr. tubes @ 3/8 each.	Menth. Pip. Wayue, 10 lbs. @ 11/6 lb.;	Tinct. Benzoin Comp., P.B., 5 lbs. @ 5/7 lb.
Ess. Lemon Opt., 6 x 1 lb. @ 4/9 lb.	1 lb. @ 12/6 lb.	" Camph. Co., P.B., 5 lbs. @ 3/4 lb.
Ext. Bellad. Vir., 7 lbs. @ 7/4 lb.	" Menth. Pip. Japan, 5 lbs. @ 6/6 lb.	" Camph. Co., Aquos., 5 lbs. @ 1/6 lb.
" Cascar. Liq., P.B., 9 lbs. @ 2/4 lb.	" Morrhuæ, 1921, 2 galls. @ 6/6 gal.	" Cinchon. Comp., P.B., 5 lbs. @ 5/- lb.
" Ergot. Liq., P.B., 5 lbs. @ 8/3 lb.; 1 lb.	" Olivæ, P.B., 2 galls. @ 9/6 gall. [11d. lb.	" Digitalis, 5 lbs. @ 4/6 lb.
@ 8/6 lb.	" Ricini Insp., 88 lbs. @ 84/- cwt.; 9 lbs. @	" Iodi. Mit., 5 lbs. @ 6/- lb.
" Ipecac. Liq., B.P., 5 lbs. @ 13/6 lb.; 1 lb.	" Wintergreen, Art., 5 lbs. @ 3/6 lb.	" Iodi. Fort., 5 lbs. @ 8/6 lb.
" Glycyrrh. Liq., B.P., 6 lbs. @ 3/4 lb.	Oxyuel Scilla, B.P., 5 cwt. @ 62/6 cwt.;	" Opil, B.P., 5 lbs. @ 4/- lb.
F erri Ammon. Cit., 7 lbs. @ 3/4 lb.	1 cwt. @ 67/6; 7 lbs. @ 1/- lb.	" Opil Aquos., 5 lbs. @ 3/- lb.
" Quin. Cit., 16 oz. @ 11d. oz.	P araff. Moll. Flav., B.P., 3 cwt. @ 52/6	" Rhei. Co., P.B., 5 lbs. @ 3/1 lb.
G lycerine Opt., D.D., 1,260 P.B., 1 cwt. @	cwt.; 1 cwt. @ 62/6 cwt.; 28 lbs. @	" Rhei. Co., Aquos., 5 lbs. @ 2/1 lb.
110/- cwt.; 56 lbs. @ 115/- cwt.; 12 lbs.	8½d. lb.; 7 lbs. @ 9½d. lb.	" Valerianæ Ammon., P.B., 5 lbs. @ 4/2 lb.
Guaiacol Carb., 1 lb. @ 12/6 lb. [1/3 lb.	Pepsin, B.P., 1 lb. @ 18/6 lb. [1/1 lb.	" Zingib., P.B., 5 lbs. @ 5/6 lb.
Gum Acacia sorts, 3 cwt. @ 57/6 cwt.; 1 cwt.	Petrol. Jelly Alb., 3½ cwt. @ 99/6 cwt.; 28 lbs.	" Zingib. Fort., 5 lbs. @ 5/9 lb.
@ 67/- cwt.; 7 lbs. @ 9d. lb.; English	Phenacetin, 1 lb. @ 7/3 lb.	U ng. Acid. Boric Alb., P.B., 28lbs. @ 1/3 lb.
Ground Powder, No. 1, 1 cwt. @ 150/-	Phenazone, 1 lb. @ 10/- lb.	" Gallæ c. Opio, P.B., 7 lbs. @ 3/3 lb.
cwt.; 7 lbs. @ 1/6 lb.; No. 2, 1 cwt. @ cwt.	Potass. Acetas., 28 lbs. @ 2/1 lb.	" Hydragr., P.B., 7 lbs. @ 2/8 lb.
H examethylenetetramine, 1 lb. @ 5/- lb.	" Bicarb., 7 lbs. @ 10½d. lb. [1/1½ lb.	" Sulph., B.P., 28 lbs. @ 1/2 lb.; 7 lbs.
Hyd. Ammon., 7 lbs. @ 6/3 lb.	" Bromid., 1 cwt. @ 11½d. lb.; 7 lbs. @	@ 1/4 lb.
" Oxid. Rub., 7 lbs. @ 6/6 lb.	" Citras., 7 lbs. @ 3/8 lb.	" Ziuci Ox., P.B., 28lbs. @ 1/2 lb.; 7 lbs.

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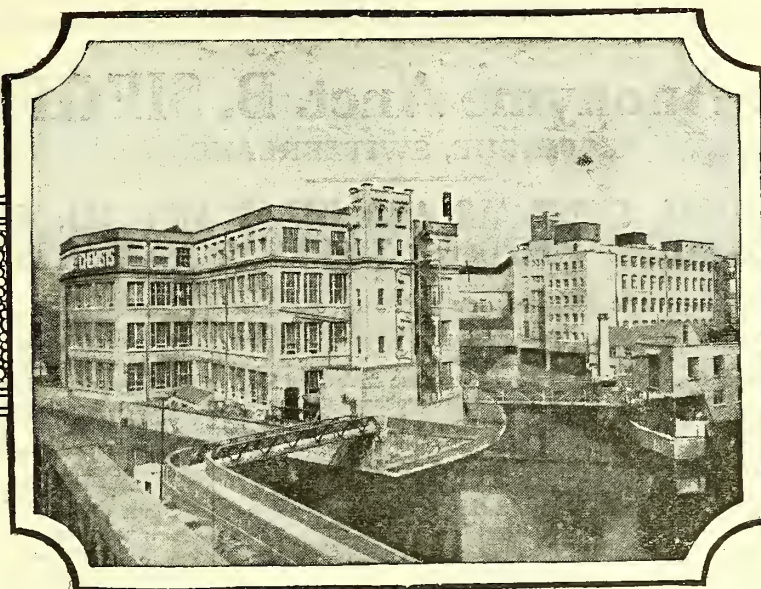
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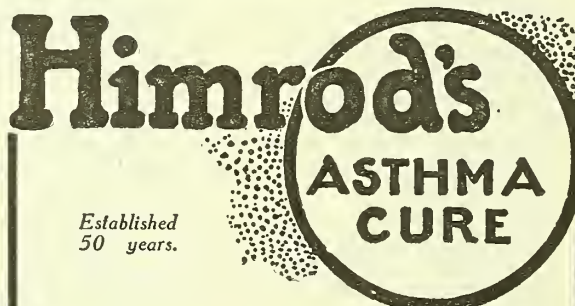
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To Public
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To Chemist
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4½d. size	7½d. size	1/3 2½ times
30/- per gross	50/- per gross	7½d. size
		90/- per gross

BONUS AS USUAL.—
In comparing values, remember Quality and Efficiency come first.

SPECIAL NOTE.—The only alteration in retail price is the present 9d. size, which will sell at 7½d. after June 1st. The 9d. Price will be supplied until that date at the reduced rate (in order to clear big Contracts of printed boxes), after which we shall supply small slips to all customers requiring the new price.

Bottled Bismuthated Magnesia “Red Band” Super Recipe.
1/3 Size, now 7/9 dozen. 2/3 Size, 14/- dozen.

BONUS AS USUAL

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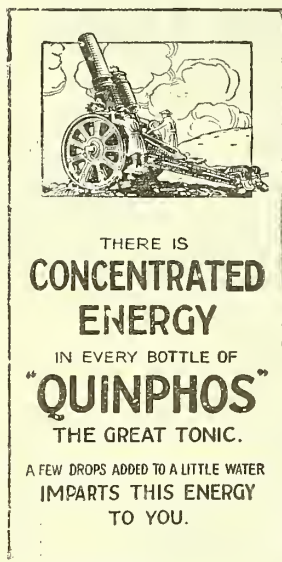
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Sells freely and readily.

	Size.	Per doz.
Licoricine	10 $\frac{1}{2}$ d.	8/6
"RED BOTTLE	1/3	12/3
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THE BEST TONIC.

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**NEW & RARE
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15/- „ **135/-** „ „

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1/3 size **12/-** per doz.

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BUTTS.	HOGSHEADS.	QR. CASKS.
108 galls.	54 galls.	27 galls.

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NOTE—Limited Stocks only at these prices. NOT LESS than 5 GROSS ASSORTED Quantities.

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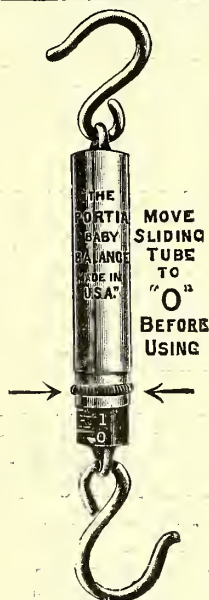
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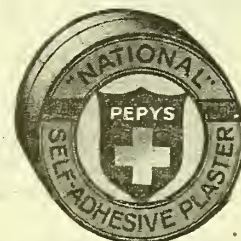
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This shows a net profit on the transaction to the Chemist of 35%, besides attracting the passer-by to the window and considerably augmenting sales generally.

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EXAMPLE.

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3½ dozen 1/3 size at 12/- net	...	£2 2 0	£2 12 6
2 " 3/- " at 30/- "	...	3 0 0	3 12 0
		5 2 0	
Less 10/6 for Window Show	...	10 6	
		£4 11 6	£6 4 6

Showing a Net Profit of £1 13 0 on an outlay of £4 11 6.

Window Display Material Free and Carriage Paid.

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1/3 size	...	12/-	per doz. net.
3/-	"	30/-	" "
5/-	"	48/6	" "
12/-	"	114/-	" "

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Phosferine, and all of our Proprietary Medicines are supplied on the condition that they are not retailed in the United Kingdom under the following prices—viz., 1/3, 3/-, 5/-, and 12/-

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These Outfits contain sufficient dressings, etc., for the accouchement.

THE "MARYLEBONE" OUTFITS are always "GOOD STOCK" as the contents cannot deteriorate or become soiled, and sterility is maintained.

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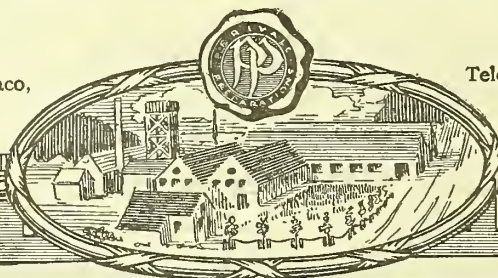
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THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C. 4

JULY 1, 1922

This Supplement is inserted in every copy of The Chemist & Druggist.

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Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone No. : City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, W.—Family Retail and Dispensing Business; very old-established; returns, present rate, about £1,500 per ann.; gross profit 40%; single-fronted shop, well-fitted and stocked; house sub-let to show profit rental of £31 per annum; held on lease; price £950, or near offer entertained.

2.—SOUTH LONDON.—General Cash Retail Business, showing a net profit £1,000 per annum; single-fronted shop, good working stock; further details on application.

3.—LONDON, N. (Shopping Thoroughfare).—Cash Retail Business, with N.H.I. Dispensing; returns £50 weekly; net profit about £700 per annum; double-fronted shop, well fitted and stocked; held on lease at moderate rental; price £1,500.

4.—CITY.—For Disposal the Fixtures of a Dispensing Business, comprising nests of mahogany fronted drawers, shelving, mahogany counters, fitted with mahogany cupboards to front and shelving within, desks, till, etc.; offer wanted.

5.—CITY.—For disposal for removal, several motors from 5½ h.p. to 10 h.p., edge runner stones, barrels, jars, etc., together with stock of drugs of all kinds; the whole of which may be inspected by appointment.

6.—LONDON, W. (Death Vacancy).—Must be sold. Retail and Dispensing Business; modern, well-fitted shop, fully stocked; large residence; new lease of 21 years will be granted; returns exceed £6,000; profits above the average; to effect a speedy transfer, no reasonable offer refused.

7.—SOUTH INDIA.—Well-appointed Pharmacy, trading chiefly with English residents; returns last year Rs. 23,336; the premises comprise magnificent building of 2 storeys, furnished throughout; all further information will be furnished in confidence.

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9.—BIRMINGHAM.—Bottle Manufacturing and Perfume Business, at present conducted by a woman; 6 large workrooms; rent £39 per annum; price £550; good opening for energetic man.

10.—WESTERN COUNTY (Death Vacancy).—Old-established Business, Retail, Dispensing and Optical; returns, last year, exceeded £2,500; net profit between £500 and £600; property must be purchased; part payment entertained.

11.—YORKSHIRE.—General Retail Business, with good opening for Photographic; established 1837; returns between £60 and £65 weekly; net profit £800 to £900 per annum; modern-fronted shop, well stocked; held on lease; price £1,600.

12.—GLAMORGAN.—Cash Retail Business, with Wines and Spirits; present hands 50 years; returns average £3,634 per annum, at fair prices; large house, private entrance; garden, held on long lease; no opposition; price £2,500.

13.—EASTERN COUNTIES.—Unopposed Business; established 1834; returns, last year, £2,200; net profit 25%; single-fronted shop, 18 ft. square; well stocked; excellent living accommodation, private entrance; large garden; new lease will be granted at £60 per annum, or property may be purchased for £1,000; price of business £1,600.

14.—SCOTLAND.—Wholesale Business, established upwards of a century; a number of Proprietaries are included, which are stocked by most chemists; returns between £4,000 and £5,000; terms, stock and plant at valuation, and sum for goodwill to be arranged.

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Telephone—1809 CENTRAL.

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By order of Administrators.

In the matter of J. D. Pidgeon, Deed.
NEW CROSS.

6 LEWISHAM HIGH ROAD.

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Can be Viewed two days prior to sale upon production of business card only, between the hours of 12 and 5 p.m.

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PLANT AND MACHINERY of a Glass Bottle Manufacturer, including "Beatal" Air Compressor, National Gas Engine, Bottle Blowing Machines, Bottle Moulds, Electric Motors, Keith-Blackman Fans, Lathes, Pumps, Gauges, Iron Piping, Pulleys, Trucks, Ladders, Vices, Tools. THE STOCK-IN-TRADE, comprising 1,500 gross Bottles in sizes, 600 gross Screw Caps, Crates, and numerous effects, together with the useful OFFICE FURNITURE, comprising Roll Top Desk, Filing Cabinets, Safes, Bookcases, Cupboards, etc.

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FOR SALE.

FOR SALE.—Stock-in-trade of a Chemist and Druggist at Cwmparc, Rhondda, Glam. Full particulars from H. R. Evans & Co., Auctioneers, Pontypridd.

ESS. CINNAMON (Bush), about 16 lbs.; Camphor, 15½ lbs.; Bottles, 1 ounce White Flint Limes, about 12 gross. Apply 7/224, Office of this Paper.

MARBLE Mortar, diameter 10 in.; another ditto, diameter 13 in., with pestle; fine mortar, diameter 13 in., with pestle; iron mortar, diameter 9 in., with pestle and tincture press, capacity 1 gal.; the lot £5. Also Standard Cash Register, in good condition, prints and registers in fractions; for quick sale, £20; also plated Suppository Mould for 24, £3; and Maw's Pessary Mould for six, 25s. Write P.C.B., 39/34, Office of this Paper.

SHOP Facia, incised 6 in. letters, under plate glass, "Dispensing Chemist, Ophthalmic Optician," with City of London Arms (3 ft. x 2 ft. 4 in.), beautifully painted in colours on plate glass, forms the centre panel, size over all 17 ft. x 2 ft. 4 in.; photo of same upon application. Saxby, 6 Jersey Place, Cheltenham.

TVIO Chemist's Fittings, 14 feet long x 9 feet high, nest of 78 drawers under; one handsome Mahogany Counter, 11 ft. 6 in. x 2 feet; Return Counter, 7 ft. 6 in. x 2 feet; also Dispensing Screen, 9 feet long, with mirror centre; could be made into 3 good cases. Fittings in Manchester. The lot cheap, £75, worth £125. Apply 261/28, Office of this Paper.

PARTNERSHIPS.

ACTIVE Directorship or Partnership required, Drug or allied trades; sound, well-established wholesale or manufacturing; good commercial experience, and capital about £2,000; only concerns able to bear strictest investigation considered; principals or solicitors only. Apply, 269/23, Office of this Paper.

CHEMIST, commencing in Wholesale Druggists' Sundries and Packed Goods, requires a Partner to form a private limited company, to act as traveller, with a connection amongst Chemists and to take part or equal shares. Lancashire, 260/9, Office of this Paper.

PARTNER (active or sleeping) wanted in Riverside Business with two shops, near London. Good-class businesses with photographic, etc. Capital required about £2,000. Good salary and interest on capital assured. Banker's reference essential. Replies to 260/15, Office of this Paper.

TO LET.

WESTON-SUPER-MARE.—To Let, prominent Shop, main thoroughfare, with dwelling-house; 34 years' Chemist; good mahogany fittings. Immed. possn. Rent £160 p.a. Sole agents, Pedrick & Morgan, F.A.I., 6 South Parade, Weston-super-Mare.

BUSY main road, High Street, Acton.—Important Lock-up Shop to Let; suit Chemist. Rent £90 per ann., inclusive of rates, or with large room at back £116 (inclusive). Lease, fittings, etc., £160. Compulsory stop for buses and trams. Apply any time on premises. Optician, 13 High Street, Acton.

TO Dentist or Doctor, two or three Rooms over old-established Chemists' business, corner premises, in a busy residential working-class district of North London; nearest dentist, 1 mile; qualified preferred. "Mutual," 267/19, Office of this Paper.

BUSINESSES WANTED.

CHEMISTS' Business required by Pharmacist; genuine concern; turnover about £1,500 yearly; neglected business not objected to if capable of increase; living accommodation essential. Full particulars, in confidence, to 269/10, Office of this Paper.

BUSINESS required; Chemist or Drug Store, Midlands preferred, but not essential; neglected business not objected to if scope for increase; living accommodation an advantage; cash transaction; particulars treated in strict confidence. 267/400, Office of this Paper.

WANTED.—Drug Store Business by unqualified man in a business thoroughfare; Liverpool or Birkenhead districts preferred, but not essential. Send full particulars of rental, situation and purchase price, etc., to 266/13, Office of this Paper.

WANTED, Chemist's Business in South or South-west; neglected business not objected to if room for scope; cash available about £1,000; replies treated in strictest confidence. 267/11, Office of this Paper.

BUSINESSES FOR DISPOSAL.

BOLTON, LANCs.—Chemist's Business, with premises; full particulars to genuine buyers with about £2,000 capital. Call, 82, Bury Road, Tottington, Bury, Lancs.

BRIGHTON.—Two Businesses, one Cash Drug Stores, and Stationery, Tobacco, and Confectionery; best position and doing good trade; rooms over; freehold must be bought; businesses £2,000, freehold £1,500; worth £2,000. Write "Statim," 22, White Street, Brighton. No agents.

BRISTOL CHANNEL.—Mixed Family and Shipping Business, unopposed, modern premises; good house and gardens; rent £32 10s.; lease 6 years to run; takings over £2,000 last year; price (including new furniture and motor cycle and sidecar (1921), £975; cash only; owner going abroad. Apply 260/18, Office of this Paper.

CITY.—Very old-established Retail Chemists, in main thoroughfare in heart of the City; 16 years' lease; turnover, which is increasing, at present £6,500, showing good profits under management; price, including valuable stock, fittings and fixtures, £3,750; exceptional opportunity. Gilbert & Pratt, 18 Walbrook, E.C.4.

LONDON, N.—Genuine cash retail, Dispensing, with N.H.I. and Photo for Sale, house attached; vacant on completion; returns by chartered accountant, £2,500; 11½ years' lease to run; middle-working class district; established over 40 years; open to every investigation; price about £1,700. Only men with ready money need apply, giving banker's reference. "Quinine," 268/26, Office of this Paper.

MANCHESTER SUBURB.—A nicely-fitted Pharmacy, stock all fresh and up-to-date, no residue stock on hand; lock-up shop in a busy street at a very low rental; excellent chance for a young man newly starting; price £550, or near offer. Apply, Thos. Tomlinson & Son, 43a Market Street, Manchester.

MANCHESTER.—A splendid opportunity occurs to acquire a really sound business. Advertiser offers choice of three nicely-fitted Drug Stores, each with good living accommodation, in middle and working-class districts, now doing steady trade and capable of great expansion; exceptional opening for N.H.I., Dentistry, Optics and Photography. Cash buyers and principals only entertained; immediate possession. Particulars, 296/19, Office of this Paper.

SOUTHPORT.—For immediate Sale, well fitted and stocked Dispensing and Photography; lease, fixtures, goodwill, etc., £300; stock at valuation; returns £1,200; net profit above the average. 260/26, Office of this Paper.

YORKS., West Riding Market Town.—Genuine High-class Dispensing and Prescribing Business, established over 100 years; many own specialties and two registered trade marks; no N.H.I.; very few patents; full prices; gross profits about 50%; beautifully fitted shop and excellent house; returns at present £1,000, much reduced through ill-health of proprietor; splendid opportunity for energetic man; terms, valuation of stock and fixtures about £1,800. Chas. C. Marsden, Chemists' Valuer, 44 Sholebroke View, Leeds.

CHEMIST'S Business, with premises, living accommodation, principal Lancashire town, central. Buyers with about £1,800 capital reply to 267/14, Office of this Paper.

CHEMIST'S Shop, main road, busy thoroughfare, East district, for Sale as going concern, with fixtures and fittings; managed until recently by the late Mr. Wheeler. Apply "Althorp," Endlebury Road, Chingford.

DENTAL Chemist's Business and Practice; market town, 70 miles from London; dental about £500 a year turnover; convenient premises, side entrance; golden opportunity for registered man. Price, including freehold, £2,300, of which £500 can remain. Bank and personal references required. Apply "Retirement," 268/30, Office of this Paper.

FOR SALE.—Proprietary article, Tolley's Vertigo Powder. Purely vegetable origin; perfectly harmless; invaluable for influenza, headache, neuralgia, sore throat, quinsy, tonsillitis. Well known and sold by all stores; only needs well advertising. A real fortune; 50 per cent. profit to manufacturer. For particulars, apply A. E. Tolley, Town Drug Stores, Great Cornbow, Halesowen, Birmingham.

FOR Sale, owing to death of proprietor, an old-established Retail, Family, and Agricultural Business; Optics and Photographics; well stocked and fitted; good living accommodation; returns 1921 £2,530; freehold premises with business on reasonable terms. Apply Exors. of the late Mr. J. W. Cussons, c/o Messrs. Andrews, Son & Huxtable, Solicitors, Dorchester.

FLOURISHING Business, in thickly populated colliery district for Sale; Kodak, Cupal, N.H.I.; wonderful prospects and limitless scope for expansion; good living accommodation. Apply, interview only, J. C. Arnott, Chemist, Ystrad Mynach, Glam.

IN Healthy London Suburb, a ready money thoroughly genuine Business, Retail, Dispensing, and N.H.I.; good house, long lease and, garden; in present hands many years; population rapidly increasing; splendid chance for an energetic man; opening for Photography and Oculist; in main road, best position; about £2,000 required. 262/23, Office of this Paper.

OLD-ESTABLISHED Drug and Photographic Business for disposal; well stocked; good scope for increase; stock and fixtures at valuation. Wilford & Co., 47 Rathbone Place, Oxford Street, W.

STOCK, Fixtures, Lease, and nucleus of a small Wholesale Business for Sale. Good premises, consisting of office, packing rooms, manufacturing rooms and living accommodation; long lease at very low rent. Price only £450, which is a genuine bargain. Apply 268/310, Office of this Paper.

UNIQUE Corn Preparation for disposal, including registered trade-mark; on P.A.T.A.; over 550 customers on books; very profitable and easily handled; line suitable for mail-order business; gross sales £6,000 over three years; only requires experienced advertising; any reasonable offer considered. Apply "Dentifrice," P.C.B. 39/23, Office of this Paper.

£4,000.—FOR immediate disposal, owing to death of Proprietor, a world-known and of nearly 50 years' reputation Drug and Rubber Sundries Stores, situated in one of the principal streets of a busy West of England town; attractive shop; good postal trade; possibilities of doubling Counter trade; well stocked; no near opposition; premises in good repair; suitable living accommodation; the price includes goodwill, fixtures, stock, trade-marks, and speciality. Apply 251/7, Office of this Paper.

SITUATIONS OPEN.

[HOME-]

RETAIL.

BLACKPOOL.—Junior (or Improver) for good-class Business; energetic, obliging and tactful Salesman essential; knowledge of Photography preferred. Apply, with photo (returned), stating salary outdoors, Imperial Pharmacy, North Promenade, Blackpool. P.S.—Applicants not answered in 3 days respectfully declined.

EASTBOURNE.—Wanted at once, qualified, good Dispenser as temporary help for about six weeks; no N.H.I. Please give full particulars as to salary, experience, etc. Apply 268/14, Office of this Paper.

EASTBOURNE.—Young, qualified Assistant for holiday duty wanted for 5 weeks from July 24; must be capable and accustomed to good-class business and have some knowledge of Photo Trade; state wages required and references on application. Harmer, Chemist.

EAST COAST.—Junior (male, outdoors) required immediately for July, August, and part of September; must have good references. Apply, stating usual particulars, Frank Kirkby, Pharmacist, Sutton-on-Sea, Lines.

FOREST GATE.—Assistant (unqualified) required, of good address, not over 35; tactful Counterman, reliable Dispenser; must have knowledge of photography and experience in window dressing. Apply, stating full particulars and salary required, to Parke's Drug Stores, Ltd., 65 Harwood Street, Kentish Town, N.W. For the convenience of provincial applicants Sunday interviews could be arranged.

GREAT YARMOUTH.—Wanted, qualified Assistant, male or female, to keep over season till end of September; indoors. Apply, with usual particulars as to height, salary required, references; R.C. preferred. P. E. Williams, 38 St. Peter's Road, Gt. Yarmouth.

ILKLEY.—Qualified or unqualified capable Assistant; light Retail, Dispensing, and Photography. State salary, with photo, Denton, Ilkley. Hours 8 to 8, half-day weekly; no Sunday duty.

LEAMINGTON SPA.—Junior Assistant wanted, high-class retail and dispensing. Apply, Davis, Chemist, Leamington.

LONDON, S.W.—Required in large West End establishment. Dispenser with minor qualifications, with good experience; under 30 years of age; personal interview required. Write, sending full particulars of experience, etc., to Box 391, Sells Advertising Offices, Fleet Street, E.C.4.

LONDON, S.W.—Counter Assistant, under 30 years of age, of good address and experience; personal interview required. Write, stating full particulars of experience to Box 368, Sells Advertising Offices, Fleet Street, E.C.4.

LONDON.—Woman Pharmacist with retail experience; give full details previous engagements, copies testimonials, state when free to commence duties, age, salary required, outdoors, 266/15, Office of this Paper.

LONDON, Central.—Outdoors, no Sunday or Bank Holiday duty, Junior, not under 24, with good retail experience in Pharmacy and Photography, but not wanted for developing or printing; some knowledge of French also an advantage. Write, giving full particulars, including total experience, to 263/28, Office of this Paper.

LONDON, S.W.—Manager, qualified, reliable man (30 to 40) to take charge of new branch; must have good middle-class experience, married preferred, who requires permanency; state full particulars, experience, age, salary required, and time for interview. Also Locum, experienced West End, fortnight end August or early September. 262/10, Office of this Paper.

LONDON, E.—Required a qualified man for new branch, remuneration by way of salary, commission; good prospects for capable man; light busy Retail, Panel dispensing. Apply with full particulars to W. D. Noble, 2 Well Street, Cable Street, E.1. Also vacancy for elderly qualified man to do panel work only.

LONDON, N.—Wanted, a capable qualified male Assistant; must have had good Dispensing and Counter experience, and have a knowledge of Photography. Apply personally to Bailey, 64, High St., Highgate.

LONDON, S.W.—Wanted, Holiday Assistant (unqualified) for two weeks, July 17 to July 29th inclusive, for Cash Retail and N.H.I. Dispensing Business; must be a quick dispenser and good counterman. Apply, stating references and terms required, to 268/31, Office of this Paper.

LOUGHBOROUGH, LEICS.—Wanted, Junior Assistant, about 19 or 20. Please state full particulars as to experience, references, salary required (outdoor) to E. J. Latimer, Chemist, 24, Market Place, Loughborough.

MANCHESTER.—Unqualified Lady Assistant required to commence July 17; must be an experienced Dispenser and used to quick cash trade in middle-class business; reasonable hours and no Sunday duty; please state recent experience, actual salary required, and when an interview could be arranged. 260/33, Office of this Paper.

MANCHESTER.—Immediately, Lady Dispenser (Hall), accustomed to good-class business. Kindly state age, experience and salary required. Applications not answered in four days courteously declined. Wheeldon, Chemist, West Didsbury.

MANCHESTER (near).—Wanted, immediately, smart young qualified Assistant; outdoors; N.H.I. Dispensing, Counters and Windows; knowledge of Photography; half-day weekly; no Sunday duty; permanency if suitable. Apply, stating full particulars, references, salary required, etc., to 269/12, Office of this Paper.

NEWPORT, SALOP.—Wanted, smart, energetic Junior Assistant (unqualified), 22-24, with good general knowledge of trade and photographic; must have good references. Please give full particulars, salary required (outdoors). C. R. Pickers, M.P.S., Newport, Salop.

PLYMOUTH.—Junior Assistant (qualified or unqualified) for light retail, dispensing and photographic business. Must be used to good-class business. State age, experience, salary, etc., to 266/5, Office of this Paper.

S.E. DISTRICT.—30s. weekly and a comfortable home offered to an elderly, qualified Chemist; easy hours and light duties. Apply 7/228, Office of this Paper.

S.W.—Smart Junior, able to take turn with Photos and Windows, no Sunday or holiday duties. Apply, with age, height, experience, and salary, to A. E. Bird, 24, Market Place, Kingston-on-Thames. Applications unanswered 5 days courteously declined.

SOUTH DEVON COAST.—Junior unqualified Assistant (male), for summer season, and possibly longer; good counterman, with knowledge of photography; state age, references and salary required (outdoors), to 268/5, Office of this Paper.

SOUTH WALES.—Qualified Locum required July 29 to August 12 inclusive for small Pharmacy and Photographic business; total abstainer essential. References and full particulars, terms, etc., to S. Baldwin Edwards, Chemist, 8, Vere Street, Cadoxton, Barry.

TORQUAY.—Junior wanted till mid-October for Photographic and Dispensing; knowledge of printing essential; no Sunday duty; state salary required and when disengaged, with usual particulars. Frederick March, 90, Belgrave Road, Torquay.

TUNBRIDGE WELLS.—Wanted at once, a capable and up-to-date Manager accustomed to good class trade; applicants must possess ability and salesmanship; state full particulars of experience, age, height, and salary required in first letter to 261/35, Office of this Paper.

TUNBRIDGE WELLS.—Capable Assistant wanted in good Dispensing Business, as Junior, qualified gentleman preferred, with front counter experience. Apply with full particulars of age, salary required, etc., to A. E. Hobbs, 20, St. John's Road, Tunbridge Wells.

WEST RIDING.—Wanted immediately, young qualified lady or gentleman Assistant; must be good salesman. State full particulars as to experience, references, and salary required. Apply, first instance, to 268/21, Office of this Paper.

WOLVERHAMPTON.—Capable Junior, male, about 22, unqualified, good class business. All-round duties, including photographic work. Full particulars salary, experience, etc., to Warner & Son, Chapel Ash, Wolverhampton.

DOCTOR, Victoria Dock, E. 16. requires a Dispenser for morning and evening surgery, from July 19 to August 2. Apply 269/16, Office of this Paper.

A QUALIFIED Assistant required immediately for middle and working class light Retail; young and energetic. Send full particulars to H. H. Thatcher, Caldmore Pharmacy, Walsall-Tel. 484.

ASSISTANT, from early July to end of September, accustomed to brisk business, good class Retail and Dispensing, with Photographic; must be active and competent; interview necessary. Applications, stating age, height, previous experience, salary required (outdoor), whether married or single, and when disengaged, to D. T. Evans, Ltd., Chemists, Margate.

ASSISTANT, young, qualified, outdoors, all-round man for Stock, Dispensing, Counter, Photography, and Window; full particulars as to age, experience, references, salary required, etc., with photo if possible (to be returned). Apply Manager, Deakin's Pharmacy, Northwich, Cheshire.

WOOLWICH, S.E.—Wanted in a small Retail and Prescribing Business, an Assistant able to take charge; suit an elderly, single man, and a good salesman, with good references; moderate salary; state whether qualified or unqualified. Apply to D. U. Still, 36 Church Street, Woolwich.

ASSISTANT required for about two months to assist during holidays; good Dispenser and knowledge of Photography necessary; state experience, age, salary required, and when disengaged. Kelsey, Chemist, Taunton.

ASSISTANT wanted, qualified or unqualified, accurate Dispenser, thoroughly conversant with good class mixed trade; must be an up-to-date Window-dresser; no one who is not capable and ready for hard work need apply; good salary for the right man. Apply, John Day & Sons, Chemists, Laisterdyke, Bradford.

ASSISTANT, qualified, for good all-round old-established Country Business, Berkshire; very good prospects and permanency for reliable man; no N.H.I. and no Sunday and holiday duty; age 35 to 40, married preferred; state salary required. Personal interview desired to "Prospects" (260/32), Office of this Paper.

ASSISTANT of good address, Junior or qualified, tall and a good Counterman; undeniable references; please state age, height, salary required, experience, and when disengaged. Smith, Chemist, Cirencester.

ASSISTANT wanted for a good class Family Business, with knowledge of Photography; good references essential. Apply personally or by letter, D. Williams, M.P.S., 74 Monkgrove Road, Highbury, N.

ASSISTANT, outdoors, reliable Dispenser and good Salesman; knowledge of photography and N.H.I. work; good Junior considered; please state terms, references, and photo (if possible). R. P. Bristol, Cash Chemist, 17 Oxford Street, High Wycombe.

ASSISTANT required at once for good class business in West-End, must have unquestionable references. Apply personally or Friday between 4 and 7 p.m., or, if by letter, to 3 Ridgmont Street, Tottenham Court Road, W.1.

DISPENSER wanted for three weeks commencing July 31. Apply, Drs. C. B. and K., 124, Stroud Green Road, N.4.

GOOD Junior Assistant; must be quick and accurate Dispenser; state age, salary required, and references. Apply C. J. Allan, Chemist, Redcar, Yorks.

HOLIDAY relief for month of August.—Qualified Assistant for good class country business; knowledge of Photography; good references essential; not over 40. Apply, stating age, experience, and salary (outdoors) required, to Woodhouse, 6 Love Road, Exeter.

JUNIOR Male Assistant for first-class Light Retail and Dispensing; no N.H.I.; must have good knowledge of Dispensing and Photography, Salesman and Window-dresser. Apply, with photograph if possible, stating salary required and references, to McKinnell, Chemist, Northampton.

JUNIOR (18), about August 24, East Coast town; must be industrious and obliging; good personal character essential; indoors; ladies need not apply. Particulars to "East," 265/36, Office of this Paper.

JUNIOR or Improver, used to good class Dispensing, Photographic, and general business. H. Hocken, M.P.S., 33 Station Road, Redhill, Surrey.

JUNIOR Assistant required at once, Stock, Dispensing, Window Dressing. State salary, references, and all particulars, to Edmondson, Harbour Street, Whitstable.

LADY (Apothecaries' Hall) with Retail experience preferred but not essential, outdoors; state age, height, salary expected, with references, enclosing photo if available. Apply to Fairweather, Chemist, Sydenham, S.E.26.

LADY Assistant wanted; must have had good retail experience; no Sunday duty. Apply, stating age, experience, salary required, to Wm. Fox & Sons, Ltd., 109, 111, 113, Bethnal Green Road.

LEWIS & BURROWS have a vacancy for a good unqualified Dispenser. Apply Lewis & Burrows, Ltd., 146, Holborn Bars, E.C.

LOCUM wanted, qualified or unqualified, capable Dispenser, July 20 to August 5. Apply, Leach, Chemist, Macclesfield.

LOCUM, qualified, wanted, from July 10 to July 22; middle-class trade, with N.H.I.; state salary and references. Chas. Potts, Ltd., Chemists, Bath Street, Ilkeston, Derbyshire.

LOCUM (unqualified Junior) for 2 weeks in August, to help at Counter; knowledge of Photography essential; please state terms. Brown's Drug Co., Rexall Pharmacy, York.

LOCUM wanted last fortnight in August, preferably 15th to 29th inclusive; give terms and references. J. F. Wilkinson, 129, Ferham Road, Rotherham.

MANAGER for branch; good knowledge of French essential; good references required. Apply, stating terms, age, and experience, to H. Lester, 64 Gt. Titchfield Street, W.1.

MANAGER required for London Suburb; age 26-40; good prospects for a keen and tactful salesman, with knowledge of photography and window dressing. Apply, stating full particulars and salary required, to Parke's Drug Stores, Ltd., 65 Harmond Street, Kentish Town, N.W. For the convenience of provincial applicants, Sunday interviews could be arranged.

NOBLE'S Isle of Man Hospital Douglas, Isle of Man.—Non-Resident Dispenser and Pharmacist. Applications for this post are invited from qualified Dispensers for whole-time duties at the Hospital. Commencing salary, £175 per annum, rising to £200, by annual increments of £12 10s. Duties to commence August 1, 1922. No Sunday duty. Lunch provided daily. Locum provided during annual leave. Applications stating age, qualifications, and experience, must be forwarded not later than July 14 to D. H. Rothwell, Hospital Secretary, 16, Athol Street, Douglas, Isle of Man.

QUALIFIED Manager, London, at once, also Assistant, qualified. N.H.I. Dispensing; permanency; working-class district; full particulars in first letter. "Pusnorgis" (262/13), Office of this Paper.

QUALIFIED Manager wanted at once for East Suburban business; personal interview preferred; state full particulars if writing; applications not answered in 4 days respectfully declined. T. A. Harrison, Pharmaceutical Chemist, Goodmayes, Ilford.

QUALIFIED Man wanted, small business, London suburb; able to take charge; good opportunity for suitable man; communications not answered in 4 days respectfully declined. State particulars and salary required to 266/17, Office of this Paper.

QUALIFIED or unqualified experienced Assistant, not under 28, required at once for Light Retail Dispensing with Optics and Photography. Apply A. P. Tiley, Pharmacist, Burslem, Stoke-on-Trent.

QUALIFIED MANAGER wanted. Village business; healthy situation; plenty fishing, shooting. Excellent opportunity for man with small capital to purchase upon exceptionally easy terms. Welsh essential; must hold undeniable references as straight, honest man and worker. Howells, Chemist, Pembroke.

QUALIFIED Dispenser and Assistant Book-keeper (male or female) required by Medical Practitioner. Write, stating age, qualifications, salary required, etc., to Dr. W. T. Briscoe, Chippenham, Wilts.

QUALIFIED Dispenser wanted each evening from 5.30, London, S.E., immediately. Apply 267/38, Office of this Paper.

QUALIFIED Manager, who could invest £500; old-established business. Apply P.C.B. 40/2, Office of this Paper.

QUALIFIED Assistant, Drug Dept. in Stores, with experience in mixed business; state age, experience, salary, and refs. The Albion Drug Stores, Ltd., Westgate, Shipley, Yorks.

TEMPORARY Assistant wanted for a month, July 17 to August 12. References and salary required to Apertnoster & Son, Chemists, Cirencester.

UNQUALIFIED Assistant (male) wanted at once, outdoors; easy hours; please state full particulars, salary, etc., in first letter. Lincoln, Chemist, Ely, Cambs.

UNQUALIFIED Assistant, capable Dispenser and Counter-hand. State salary required and references to London, E. Those not answered in 7 days respectfully declined. Apply 268/10, Office of this Paper.

WANTED, a qualified Working Manager for branch near Manchester; one accustomed to quick retail business and N.H.I. dispensing. State age, experience and salary required. Please send photograph, if possible. 264/34, Office of this Paper.

WANTED, at once, competent Assistant, with knowledge of Photography and high-class Dispensing business; reply with all particulars, giving references, and stating salary required. Alfred Bond, Ltd., Newquay, Cornwall.

WANTED, Locum, urgently, East Yorks, from July 3 to 19; must be good Prescriber and pushful; if satisfactory a permanent managership will be offered; terms and references. "Cymro," 260/29, Office of this Paper.

WANTED, at once Junior Assistant, unqualified, used to N.H.I. Dispensing. Apply, with references and salary required, G. W. Fitton, 352, Kingsland Road, Dalston, E.8.

WANTED, married Chemist, to manage business in London suburb; live out. Apply, X., 268/12, Office of this Paper.

WANTED, a Locum for 2 or 3 weeks in July. Oram's Drug Co., Romsey, Hampshire.

YOUNG Lady, about 21, for five months or so. Good class family and agricultural business, small town, Berwickshire. Duties, shop routine, daybook and ledger, correspondence and accounts; hours, 8.30 to 6.30; no Sunday or holiday duty; excellent references required. State salary and other particulars. Howden, Chemist, Coldstream.

YOUNG qualified man required, willing to undertake relief work until September 30. Must be good counterman and dispenser. State salary required and when at liberty. "Relief," 268/27, Office of this Paper.

YOUNG qualified man wanted for good-class business in Kensington; energetic, good organiser, knowledge of photography preferred. Reply, stating experience and salary required, to "Chemicus," 267/39, Office of this Paper.

YOUNG, unqualified male Assistant required, capable Salesman, window dresser, and good at photographs. Permanency if suitable. Jones, Chemist, Burdett Road, Mile End.

£300 PER ANNUM.—A vacancy will shortly occur for a capable young qualified Manager in a South Coast town. Replies treated in strictest confidence. Applr 268/8, Office of this Paper.

WHOLESALE.

MIDLANDS, also Eastern Counties and Kent.—Representatives Wanted for well-known Pill and Tablet House, on commission basis. Part time not objected to where interests do not clash. Applications giving full particulars, stating ground covered, will be treated in confidence. "Benet," 7/229, Office of this Paper.

DRY ROOM.—First-class Counter Assistant required, used to control of staff and stock. Apply, with all details as to age, experience, salary required, to 266/70, Office of this Paper.

FOREWOMAN, to take entire charge of girls, used to packing by hand and machinery; good references; age 39. Apply 268/20, Office of this Paper.

FIRST-CLASS Salesman wanted to represent old-established Soap-makers, Birmingham and Midland counties; live connection with Chemists essential. Apply in confidence, with reference and full particulars, 7/226, Office of this Paper.

GOOD Salesmen for Ireland and English North-Eastern Counties and also for the various London districts calling on Chemists, Hairdressers, and Stores, for a firm manufacturing extensive range of competitive Toilet Goods and Perfumery; good positions for the right men. Please reply in confidence, with full particulars as to experience, age, salary, and expenses, to Sales Manager, "Eclipsol" Works, Bristol.

JUNIOR Assistant required for Wet or Dry Counter Manufacturing Chemists, London, E. Apply by letter, stating age, experience, and salary required, 262/6, Office of this Paper.

PACKED GOODS.—Foreman required by Provincial House; must be good organiser and stock-keeper, capable both for supervision and initiative. State salary required, age, experience, if married, etc., to (266/7), Office of this Paper.

QUALIFIED Pharmacist required as representative for a Lancashire House calling on Doctors and Chemists; experience not essential, but must know the trade. Apply by letter, sending photograph, giving full particulars of experience, age, height, and salary expected, to 267/12, Office of this Paper.

REPRESENTATIVE, on commission basis, required for Northumberland and Durham, by Coate & Co. (Axminster), Ltd., Axminster, Devon, for the sale of Toilet Brushes.

REPRESENTATIVE, on commission basis, required for Holland, by Coate & Co. (Axminster), Ltd., Axminster, Devon, for the sale of Toilet Brushes.

REPRESENTATIVE for interviewing doctors wanted, to introduce to medical men Medicinal Waters. Box No. 135, Raeburn's, 104 High Holborn, London, W.C. 1.

REPRESENTATIVES required with established connection amongst Wholesale Chemists and Druggists, Perfumers, Toilet Soapmakers, etc., for high-class Essences, only circularised hitherto; monopoly for ground covered; liberal commissions only. Apply "B. A." (261/23), Office of this Paper.

REPRESENTATIVES, calling on Wholesale and Retail Chemists, wanted in all parts of the U.K., to sell as extra line well-known Theatrical Perfumeries, etc.; commission basis; state ground worked. Write only, "V," 15a Whitcomb Street, W.C.2.

RESIDENT Representatives on commission terms to represent one of the oldest Perfumery and Soap houses in the trade. The following territories are now vacant:—(1) Lancashire, Cheshire, and North Wales; (2) South Wales; (3) Eastern Counties, Essex, etc.; (4) London City; (5) Kent, Sussex, Surrey, Hampshire, and part of Middlesex. Full particulars as to lines now carried to 7/230, Office of this Paper.

RESIDENT Representative wanted for the following Territory: Nottingham, Derbyshire, and Lincolnshire, to carry three known and advertised proprietary lines. Also a Resident Representative for Yorkshire. Full particulars to Smith, 5 York Place, Leeds.

SALESMEN required who can introduce new product of vital importance to Chemists and Stores, and backed by powerful National Advertising Campaign, with Demonstrations covering the U.K. This is an opportunity for men who know how to sell, success bringing them into association with other big lines. Such men apply, stating area covered, record of salesmanship, turnover, age, etc., "Opportunity," c/o Hopton Hadley's, 180 Fleet Street, E.C.

SURGICAL Instrument Department of Colonial Wholesale and Retail House.—Man wanted to take charge. Apply in writing with full particulars, to "Export," The British Drug Houses, Ltd.

TRAVELLERS calling on Wholesale Chemists and Hotels wanted by importer of Danish Toilet Soaps; commission basis. "A. P." (P.C.B. 39/24), Office of this Paper.

TRAVELLERS, United Kingdom, calling on Wholesale and Retail Chemists, with lines of Toilet Brushes; 10 per cent. commission basis only; men preferred carrying other lines. Apply, 7/215, Office of this Paper.

TRAVELLERS.—Manufacturers of several well-advertised Specialities commanding a ready sale wish to get in touch with Travellers calling on retail chemists in the Midlands and North of England. Write, A. F. Sherley & Co., Ltd., 46-48, Borough High Street, S.E.1.

TWO Travellers required for Lancashire and district; must have connection; full particulars. Banks & Dalrymple, Wholesale Chemists, Liverpool.

WANTED, Traveller, one having a good connection with Drug Stores, to introduce a valuable scientific line; excellent commission can be earned by the right man. Write, "Vitic," 2 and 4, Tudor Street, London, E.C.

WANTED, by Manufacturing Chemists, energetic Traveller calling on Retail trade, to carry few saleable packed lines; commission attractive and progressive and part expenses. Apply, stating ground covered, P.C.B. 38/39, Office of this Paper.

WHOLESALE Drug Trade; second Warehouseman required for drug and chemical floor; Romford district. Write, stating age, previous experience, and full particulars, to Mr. Clark, 62 Bank Chambers, Holborn, W.C.1.

[Colonial, Indian and Foreign.]

AIX-LES-BAINS (France) demands Assistant Anglais parlant français pour saison; urgent. Pharmacie Folliet & Co.

INDIA.—Representative, single, qualified, wanted by firm of Manufacturing Chemists to travel in India and the East. Good prospects for capable and energetic man. Personal interview necessary. Apply, with full particulars of age, previous experience, etc., to 7/227, Office of this Paper.

ROME-ITALY.—Qualified Assistant required; good experience; preferably speaking French. Send photo if possible and full particulars. H. Roberts & Co., P.C.B., 38/13, Office of this Paper.

SITUATIONS WANTED.

[HOME.]

RETAIL.

A **PHARMACIST**, 28, desires post as Manager, Locum or Assistant Secretary; all-round experience and first-class references; can provide security up to £200. Apply B., 85 Maybury Road, Woking.

A **THOROUGHLY** energetic and trustworthy qualified (Welsh) Chemist requires a permanent position of trust; excellent London and provincial experience. Please wire or write to Williams, 14, Penn Road, Wolverhampton.

A **YOUNG** Lady seeks permanent position, 4 years Counter, Window-dressing, and Photography; good references; wages £2 15s., or nearest. E. Atkin, 6 Dowsett Road, Tottenham, N.17.

A **ACTIVE** and capable Assistant, Photographer, Dispenser, and Counterman, accustomed to good class businesses. "Valox," 255/14, Office of this Paper.

A **LL-ROUND** unqualified (34), brisk, up-to-date methods, energetic, and first-class Window-dresser; has had entire charge; capable Salesman; last two situations 8 years; would manage Drug-stores; London or near. Apply 262/9, Office of this Paper.

A **N** Elderly Pharmacist, experienced; married (no family); disengaged; gentlemanly; salary according to requirements. 59, Primrose Avenue, Haslington, Crewe.

A **N** experienced Assistant, elderly, requires part-time employment, mornings, evenings, week-ends; moderate. "Statim," 35a Broadway Parade, Crouch End, N.8.

A **QUALIFIED** Chemist desires berth as Manager; good business man, fine experience, thoroughly reliable, best of references, of good address. 42; send particulars and salary offered. Veritas, 268/34, Office of this Paper.

A **S** Manager-Dispenser or part time; qualified; experienced; middle-aged; terms moderate. E. S. B., 262/4, Office of this Paper.

A **S** Assistant Dispenser, age 27; married; two years' experience as Assistant Dispenser and Dresser. Apply M.L. 75250, Office of this Paper.

A **S** Improver or Junior; age 19½; 4 years' experience dispensing, counter, window-dressing and photographic trade; retail or wholesale. William Bruce, 29, McRae Street, Wick, Caithness.

A **S** Locum or permanency disengaged; good references; first-class experience; moderate terms; reliable; energetic. Chemist, 6 Eastbourne Terrace, London, W.

A **SSISTANT**, 20, male, requires post as Temporary Dispenser until October; good references. Turner, 14, Sussex Road, Haywards Heath.

A **SSISTANT** (28), married, 11 years' good class experience, Dispensing, Counter, Windows, and full knowledge of Photography; capable of being left in charge; well recommended; excellent references; permanent or temporary. 267/40, Office of this Paper.

A **SSISTANT**, unqualified; good Counterman, accurate Dispenser; highest references; disengaged July 22. Alderson, 105, Bristol Road, Birmingham.

A **SSISTANT**, disengaged July 1, unqualified, age 27, Locum or permanency; East End experience, Dispensing, Counter, Photography, and Window-dressing; excellent references; East or West London preferred. Apply 266/16, Office of this Paper.

A **SSISTANT**, 20, tall, requires position in Manchester or Bolton; 5 years' experience; first-class references. Dispenser, 112 Church Road, Kearsley, nr. Bolton, Lancs.

A **SSISTANT**, unqual.; whole, part-time, relief; experienced, steady, reliable; good refs.; mod. salary. "Drugs," 40 Eastfield Road, Southsea.

A **SSISTANT** (30) requires situation, thoroughly experienced in all departments of retail trade; excellent references. Advertiser, 22, St. Stephen's Square, Bayswater.

B **RANCH** Manager, age 34, unqualified, excellent Photography experience and Pharmacy; good references as Manager. 259/4, Office of this Paper.

B **RISTOL**.—Elderly qualified Chemist as Locum or Cover, or permanency if short hours. Kiddle, 36, Somerville Road, Bishopston, Bristol.

C **HEMIST**; age 22; single; Honours, B.Sc. (London), French and German; six months' experience in Photographic Developers, one year in Royal Engineers; excellent references; nominal salary. Apply M.L. 54810, Office of this Paper.

C **HEMIST'S** Assistant; age 42; war service, 15 months; 13 years' experience as Chemist's Assistant. Apply M.L. 8656/21, Office of this Paper.

D **ISENGAGED** (age 24), used to brisk Counter trade, Photography and window dressing; S.W. preferred. Thompson, 175 Putney Bridge Road, S.W. 15.

D **ISPENSER**, lady (Hall); 7 years' experience Hospital, Surgery (Book-keeping); excellent testimonials. Miss Millard, The Villas, Aston, near Stone, Staffordshire.

D **ISPENSER** (Hall), Hospital experience; willing to learn counter trade. Miss White, 131, Welholme Road, Grimsby.

D **ISPENSER** to Doctor or Chemist; unqualified; excellent reference. Innes, 2 Ferndale Road, Weymouth.

D **ISPENSER** (Hall), 28, male, requires further experience with Chemist; moderate salary; East London preferred. L., 175 Harold Road, Upton Manor, E.13.

DOCTOR'S Dispenser-Secretary (male) seeks immediate situation, either with Doctor or Chemist. Apprenticeship served with Chemist, and three years' practical experience Dispensing, Book-keeping and general surgery routine with Doctor; thoroughly competent and conscientious worker; one who studies employer's interests; understands cars, driving and repairs; excellent references; Nottingham or Derby district preferred; disengaged. E. V. Benbow, "Glengel," Smallbrook Road, Whitchurch, Salop.

ELDERLY Man urgently needs situation; good counterman; N.I.H. dispensing, etc.; moderate salary; good references; Manchester or near; 14 years in last situation. J. D. Ward, 251 Regent Road, Salford.

ELDERLY qualified Chemist desires employment, with short hours or part-time; country preferred. Baker, 81 Elgar Road, Reading.

FEMALE Junior Assistant, 4 years' all-round experience. Dispensing, Counter, etc., wants change; excellent reference. Welford, 45 Galgate, Barnard Castle.

GOOD-class all-round experience, excellent references, unqualified (24), Window-dressing and Photography; reasonable **IRISH**, qualified, 14 years' Manager, age 38, married, good knowledge general trade, wants change, England or Scotland. 264/37, Office of this Paper.

JUNIOR Assistant seeks situation. F. John, c/o Rowe, Chemist, Narberth, S. Wales.

JUNIOR Improver (19) requires situation; good experience. Dispensing, Counter, and Photography; excellent references. Apply Toy, Llidiardcarnen, Rhayader.

JUNIOR, unqualified; excellent references; all-round experience, including Window-dressing and Photography; reasonable salary. Apply 260/8, Office of this Paper.

JUNIOR (21) desires change; town preferred; good experience in Counter, Dispensing and Photographic. Symmons, North Road, Milford Haven.

LADY Dispenser-Bookkeeper (Hall) desires post with Doctor in London; experienced. Rumney, 15, Essendine Road, W.9.

LADY Dispenser (Hall), experienced, desires post with Doctor, Institution or Chemist; books, secretarial work if required. Address, 262/7, Office of this Paper.

LADY Dispenser (Hall) desires post; excellent references. Apply 262/24, Office of this Paper.

LADY Dispenser, Hall qualification, experienced, desires post; Tunbridge Wells—Eastbourne district; excellent testimonials. Miss L. Taunton, Rotherfield, Sussex.

LADY (Hall), 5 years' retail experience; disengaged. Apply Painter, Hopkinson House, 88 Vauxhall Bridge Road, London, S.W.1.

LOCUM, Dispenser, lady, Hall, 13 years' hospital work, book-keeping, also medical and surgery work Dr.'s practice; excellent testimonials; free Sept.; moderate salary. Apply, A., 26, St. John Road, Richmond.

LOCUM or Part-time; Liverpool or district; disengaged July; long experience; references and all particulars. M., 7, Brierfield Road, Wavertree, Liverpool.

LOCUM, qualified; disengaged from July 10 to 22nd. M. P. S., Messrs. Southall's, Lower Priory, Birmingham.

LOCUM, qualified, West-End experience, for London or Suburbs, until July 29. Write 261/33, Office of this Paper. salary. Apply 268/9, Office of this Paper.

LOCUM—July 10th to 31st; qualified (26). Wilson, 109, Hanley Road, Finsbury Park, N.4.

LOCUM, qualified; disengaged; Prescriber; elderly, active; wide experience; reliable. B. Griffiths, 6 Newcastle Hill, Bridgend, Glam.

LOCUM or part-time; disengaged until July 15th; unqualified; smart manager and window-dresser. H. C. B., 345, Woolwich Road, Charlton, S.E.7.

LOCUM, Manager, Assistant; qualified; thoroughly experienced; satisfactory references; accustomed to management; disengaged. "Idem," 51, Somerleyton Road, Brixton, S.W.

LOCUM or Manager; 50; qualified; wide experience; disengaged; references. Pharmacist, 38 Wendover Road, Harlesden, N.W.

LOCUM, experienced; West Riding; highest references; free July 3. Francis B. di Menna, Pharmacist, George Street, Lindley, Huddersfield.

LOCUM, 25 years' first-class experience in all branches. H. P., The Bungalow, Stonor, Henley-on-Thames.

LOCUM or Season; reliable; reasonable; City, West-End and Hospital experience; best references; disengaged. "Lychen," 65 Pevensey Road, Eastbourne.

LOCUM, Chemist or Doctor; thoroughly conscientious worker; London or country; abstainer; unqualified. E., 20 Walton Road, Woking.

MANAGER or Locum, qualified, 32, tall; best all-round experience; excellent references. Apply, 266/37, Office of this Paper.

MANAGER or otherwise, qualified; first-class experience and references, all branches. "W. S.," 163 Eswyn Road, Tooting, S.W.17.

MANAGER; qualified; seven years last situation; age 46; married (no family); country town preferred. J. W. D., 42, Ingleton Street, Brixton, S.W.9.

NO Salary; third-year Medical Student seeks employment in any capacity in exchange for board residence for July, August and September; speaks French; excellent references. Apply P.C.B. 39/35, Office of this Paper.

PHARMACIST, elderly, healthy, and active, wants post; good Prescriber and Dispenser; widower. Brown, 49, Henry Street, Bishton, near Blackburn.

PHARMACIST (39), capital £1,000, desires position in good-class Pharmacy, with view to succession or partnership. Apply 266/6, Office of this Paper.

PHARMACIST requires Manership or Locum; thorough all-round experience; excellent prescriber and salesman; young, energetic, of good address and education; disengaged July 1st; state terms in reply. 260/34, Office of this Paper.

QUALIFIED Chemist seeks position as Assistant or Branch Manager; 2nd Lieut.; age 23; single; six years' West-End experience. Apply, M.L., 145/22, Office of this Paper.

QUALIFIED CHEMIST as Locum, or permanency; disengaged July 10; references. "Chemist," 74, Hamilton Road, Golders Green, N.W.11.

QUALIFIED Chemist seeks post, as Manager preferred, or Locum, 36, married; Manchester district preferred; disengaged. 269/7, Office of this Paper.

QUALIFIED (26); tall; competent; Assistant or Locum; experienced; excellent references; disengaged July 1st; near Exeter preferred; not essential. Woodhouse, c/o Bennet, Chemist, Totnes, Devon.

QUALIFIED (40), Locum or Manager; twenty years' first-class Dispensing and Photographic experience. MacGregor, 23, Wood Street, Woolwich.

QUALIFIED Locum or Manager; widower; no encumbrance; first-class all-round experience; smart appearance; London or provinces; references; at liberty 1st July; interview or photo. B. Kilvert, 37 Islip Street, Kentish Town, London.

REGISTERED Dentist; proficient all Chemist's business, desires engagement; 44; tall, smart, with over 25 years' experience; South Coast preferably; permanency wanted; consider season engagement or Locum Tenens; disengaged; interview preferred. Apply W. Cole, 25, Hatchlands Road, Redhill, Surrey.

REGISTERED; Branch, small Prescriber, Super, etc. "D.," Eastdean, Stamford Road, Bowdon, Cheshire.

RELIABLE Substitute; Manager or Assistant; 20 years' good class, all-round; highest references; immediate. Busby, 53 Bramford Road, Wandsworth.

SCOTCH Lady desires post; 5 years' experience; one subject to complete minor; Dispensing experience required; England or Scotland. Apply 265/31, Office of this Paper.

SMART, up-to-date Assistant, age 37, requires a good permanent situation; thoroughly conversant with all departments of the Retail trade; excellent references. "Worker" (252/40), Office of this Paper.

TO Proprietors.—Pharmacist, young, ambitious, desires post, with prospects of good permanency or succession; engaged until August; Midlands preferred. "Advancement" 268/15, Office of this Paper.

UNQUALIFIED Assistant, 25, tall, desires post; good Dispenser, salesman; Photography, all branches; references; free July 31. Write D. Douglas, 24, Lansdowne Gardens, Stockwell, S.W.8.

WEST OF ENGLAND.—Unqualified, 29, married, energetic, capable, reliable, tall, good appearance and address; excellent references; 14 years' experience high-class Dispensary, Photographic and Quick Retail; accustomed to take charge; disengaged middle July; permanency. H. H., 67 Pihoe Road, Exeter.

WEST RIDING.—As Manager; permanency desired; highest references and experience. Apply with full particulars as to salary, &c., in confidence, to "Minor" 269/9, Office of this Paper.

£2—Assistant or manage branch; unqualified; permanent or otherwise; 20 years' all-round experience; abstainer; ref. "Mersey," 1, Lowwood Grove, Woodlands, Birkenhead.

WHOLESALE.

ADVERTISER, young, Toilet Goods experience, seeks position in Wholesale; can invest; Midlands preferred. "Toluit," 261/30, Office of this Paper.

CHEMIST; age 32; single; good theoretical knowledge of Chemistry; one year's practical experience in Chemical Factories; educated Secondary Schools, University of Wales. Apply M.L. 7238/21, Office of this Paper.

CHEMIST, thoroughly qualified, experienced in Manufacturing Extracts, Drugs, Alkaloids, and Fine Chemicals, also in Works Practice, control, and management of staff, is open to engagement. Apply 262/200, Office of this Paper.

CHEMIST, qualified, capable and reliable, wishes to join small Wholesale or Drysalter, Yorks, or Lancs., as Manager with prospects of interest in firm. Apply 262/14, Office of this Paper.

CHEMIST, Manufacturing and Analytical, widely experienced, control staff and plant, with capital for investment, would be pleased to correspond with Manufacturers view to taking active co-operation in control. Details from Excelsior, 128, Empress Avenue, Ilford.

WAREHOUSE Manager, Correspondent; long experience Essence trade; London or provinces. W. Taylor, 121 Effra Road, Wimbledon.

INVOICE Clerk, familiar with general office routine; moderate salary; good references; disengaged in one month. Collings, 24, King Street, S.W.3.

METALLURGIST or Chemist, age 30, Lieut., with long experience in America and Continent, desires an opening with Metallurgical firm; expert knowledge of acid-resisting alloys, both ferrous and non-ferrous. Apply M.L. 72864, Office of this Paper.

REPRESENTATIVE, Midlands, with sound connection, living in centre of ground, requires post, Drugs and/or Sundries; not afraid of work; excellent references. Write Oppidan, 265/34, Office of this Paper.

REPRESENTATIVE (35), thoroughly experienced in Pharmacy and allied trades, pre-war connection in South Africa, seeks position as home representative or might undertake Colonial representation; salary approximately £500 per annum. Write "Rhei," 268/4, Office of this Paper.

SITUATION wanted by experienced Export Packer; used to glass goods; state terms. Lcx, 32, St. George's Square, Forest Gate.

SPANISH Gentleman (26), fluently French good English, seeks situation as Salesman in Drugs, Chemicals, Surgical, Toilet Goods or Perfumery; nine years' experience; moderate salary; good references. P.C.B., 39/20, Office of this Paper.

TECHNICAL Chemist, age 34, Captain, 4½ years' war service, M.A., Honours B.Sc., Edinburgh, pre-war Research and Management and Business experience, seeks responsible position in works or with commercial house requiring hard work and carrying reward; just relinquished post as Chief Chemist. Apply M.L. 8590, Office of this Paper.

TOILET Preparations, etc.—Desires change shortly; energetic, North Countryman (26); full practical knowledge manufacturing, finishing all Toilet Specialities, Fancy Soaps, Disinfectants, etc.; organising ability, initiative, engineering, general laboratory maintenance knowledge, control staff, introduce new lines, undertake building up new department; 8 years well-known high-class Manufacturing Chemists; last 3 years London House; home, export; departmental head. Apply 265/27, Office of this Paper.

TRAVELLER.—A well-known man, who has worked Midlands several years, and previously West of England, wishes re-engagement either on both grounds or elsewhere; good connection; can influence large business chemists, stores, etc.; first-class references, and record as Salesman; disengaged. Apply 269/22, Office of this Paper.

WORKS Chemist; University education; age 36; 2nd Lieut.; first-class industrial training, Analytical Research, Development, Management; six years' experience Fine and Heavy Chemicals; modern efficiency methods; excellent records. Apply M.L., 8633/21, Office of this Paper.

WORKS Manager, with many years' experience of Drugs, Perfumery, Disinfectants, &c., seeks appointment. P.C.B. 39/39, Office of this Paper.

[Colonial, Indian and Foreign.]

MANUFACTURING Chemist; age 24; single; educated Hartly University; fluent Spanish; good knowledge Chemistry, Manufacturing Medicine Goods, and Mines; knowledge Manufacturing and Pharmaceutical Medicinal Formula; wishes to go abroad; Spain and Spanish-speaking countries. Apply M.L. 13256, Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1896. Telephone: 81 Lee Green. Shares for sale (free of commission, subject) Pfs., 13s.; 500 Dental Mfg. £1, fully paid, 11s.; 500 Idris 6 per cent. Pfs., 11s.; 100 Parkes Drug Ord., 17s. 9d. c.d.; 300 Plasmon Pfs., 12s. 7½d.; 500 Premier Oil, 15s. share, fully paid, 3s. 4½d.; 500 Uroz Oil, 13s. 1½d.; 500 A. J. White Ord., 5s. 4½d. c.d.; 146 Yeatman Ord., 11s. 6d. Wanted (subject), Allenbury's Wright Layman.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262, Old Street, London, E.C.1.

SHOP FITTINGS.—Second-hand Drug Fitting, glass-fronted S Counter, Wall Cases, and Dispensing Screens for immediate delivery; lowest price consistent with high-class work. H. Mills & Sons, Shopfitters, 163-165 Old Street, E.C.1.

SHOP Fittings, for the Summer Trade, silent Salesman Cases, all Glass Counter, Camera Cases, etc. All repay their cost quickly. Philip Josephs & Sons, Ltd., Shop Fitters, 93 Old Street, London, E.C.1.

BARGAIN.—Complete Shop Fittings (late Drug Store); proprietor died recently; shop rounds, with or without contents; 5 Mahogany Counter Cases with glass shelves and mirrors; 2 large Show Cases, 1 mahogany, 6ft. x 8ft.; 6 swing doors (glass); wooden shelves; other fittings to be sold as well. All are in first-class condition. Apply 268/36, Office of this Paper.

COMPLETE Mahogany Fittings, shop-soiled, second-hand 12 ft. complete drug fitting, 10 ft. Glass Case Front Counter, 10 ft. Wall Case, 6 ft. Dispensary Screen and Counter under Perfume case and desk, 2 4-ft. Nests counter drawers, also mahogany and plate-glass Salesman, 6 ft. high, 2 ft. x 2 ft. The lot at low price. George Cook, 29 Macclesfield Street, City Road, E.C.1.

EAU DE COLOGNE, 3½ galls., finest spirit perfume, at 16s. 9d. p. pint; can be inspected by appointment, or sample forwarded on application. Also 2½ galls. finished, clear spirit perfume, of each of 12 floral odours, at 16s. 9d. per pint; for disposal in bulk or small lots. Above are portions of an unexecuted export order. Dean, 18 Victoria Street, S.W.

EX-SERVICE Pharmacy Proprietors.—

I am reviving my successful Business Increasing Scheme (*vide* any C. and D. or Diary 1905-1913) for you only. I shall attempt to increase every business £200 a year gross receipts, and shall lose money myself if I fail. Send P.C. A. Bernard Slack, 68 Lodge Lane, Liverpool.

FIRM of Chemical Manufacturers wish to get in touch with Wholesale Chemists, &c., with a view to manufacturing new lines for them, either packed or in bulk. 268/37, Office of this Paper.

LIMITED COMPANY FORMATION.—

Before placing your Company in other hands, get my quotation. I specialise in Chemist and tradesmen private companies and quote inclusive charge; no extras. A. B. Slack, 68 Lodge Lane, Liverpool.

FOR Sale, freshly-pressed Lemon Juice; can be railed same day as pressed. Apply John F. Crookall, Produce Merchant, 15 Stanley Street, Liverpool.

PILL Piping and Cutting Machine, by Cockings; size of gun-metal rolls, 9 in. x 4½ in.; accept £25. Pill Paste Mixing Machine, by Werner; gunmetal body and blades; £12 10s. Cash and Book Safe, by Whittingham, 36 in. high, with two drawers; very massive and strong; in excellent condition; £16 10s. The Silicate Engineering Co., Ltd., 101a Stanhope Street, Birmingham.

STAMPS.—Are you a collector? approvals

at ¼ to ½ catalogue for used and ¼ for mint. I can supply collections of any country, or general collections from 100 to 10,000 varieties. Why not a trial? W. Jarvis, Pharmacist, 126 Stephendale Road, Fulham, S.W. 6.

THE Retail Pharmacists' Union have

numerous inquiries for locums. Those with good experience in the retail and unquestionable references should get into communication with the R.P.U. at once. R.P.U., 19 Tavistock Square, London, W.C. 1.

1,000 GROSS No. 2 White Flint Tablet Bottles, complete with caps, 5s. 6d. per gross; 300 gross No. 7 White Flint Tablets, complete with caps, 9s. per gross; delivered London or free on rail, London. Ophthalmic & Chemists Supply Co., 73 Lower Thames Street, E.C.3.

EXCHANGE COLUMN.

FOR DISPOSAL.

OVERSTOCKED.—Offers wanted for 1 dozen 5s. size and ½ dozen 2s. 6d. size Ponorex; also 11 dozen 100's Saccharine Tablets, 6s. per dozen. Apply 39/340, Office of this Paper.

PRINTING PRESS, metal type, accessories, 22s. 6d. Particulars, W. Webster, 291 Normanton Road, Derby.

WHAT offers? 15 x 2 Wade's Lubid Ice; perfect condition. Baker, Chemist, South Shields.

WHAT offers for 3 dozen 3s. 3d. Jars Chymol, clean? Beavon's Drug Stores, Bilston.

ONE dozen Vertical Developing Tanks, acid proof, 17 in. x 13 in. x 39 in.; capacity 20 gallons; 25s. each; no tap. 263/10; Office of this Paper.

WANTED.

ADDRESS wanted of Locum. B. Richards, formerly Essex Road. Reply Thomas, 938 Garratt Lane, S.W. 17.

COMPLETE PILL PLANT. Small size for Power. Full particulars and price to E.J. P.C.B. 39/21, Office of this Paper.

PERSONAL WEIGHING MACHINE, in good order. Edwards, 310 Gray's Inn Road, W.C.

QUOTATIONS required for quantity of Pin Needle Oil. 7/225. Office of this Paper.

NEST of Drug Drawers, Shop Rounds, Small Carboys; good condition. "East Kent," 260/20, Office of this Paper.

PUMP Dental Chair, Spittoon, and up-to-date Dental Furniture. 267/15, Office of this Paper.

PHARMACEUTICAL Books wanted; send priced list. Gower, Bookseller, 41 Voltaire Road, Clapham.

DISPENSING SCALES, any condition. Lowest price, particulars, H. P. Crofts, 16 Alcester Road, Moseley, Birmingham.

RADIUM SALT, pure of Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.